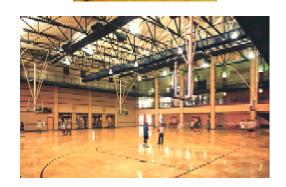
Technical Criteria



U.S. Army Physical Fitness Facilities



Technical Criteria for U.S. Army Physical Fitness Facilities





Developed for the Corps of Engineers

October 2003

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Executive Summary



A. Summary of Findings

Facility Allocation

Four Physical Fitness Facility (PFF) building programs are developed and presented herein. The PFF buildings are allocated on the basis of authorized population (AP) which includes 100% of active duty military and 25% of their dependents. Retirees are not counted in the AP at this time. DoD civilians are included at 10% only if they exceed 60% of the total workforce for CONUS installations. OCONUS installations are authorized at 100% of the civilian population in their AP. The four PFF total building program areas include the following:

are Feet)

To calculate PFF building program for APs that exceed 10,000, an "Increment" building program is provided to increase the Large building program. The Increment program is intended to serve each additional 5,000 persons over 10,000 and includes 30,677SF. Thus, a total AP of 20,000 would require a Large PFF of 89,448SF + two 30,677SF Increments for a total of 150,802SF.

Facility Evaluation - Program Area

A breakdown of the Critical Function Modules (CFM) or components in the PFF is provided on page 5. Existing and new facilities should be inventoried and measured to assess compliance with these program areas. A PFF is considered to be in compliance with the PFF requirements when the following occurs:

- If Fitness, Exercise and Shower/Locker/Toilet CFM components and their subcomponents individually meet a minimum of 95% of the net square foot required space, the CFM are considered in compliance.
- If the number of Racquetball or Squash Courts required in the Structured Activity Component is met, even if the courts are smaller than the required area, the component is considered to be in compliance. If compliance is not met, the required courts should be added by using a net increase of 850SF per court.
- If the Gymnasium component has the required number of courts sized at 50'x94' regardless of whether the required bleacher and storage areas are met, the Gym Component is considered to be in compliance. If this requirement is not met, new Gymnasium modules should provided per the PFF Space Allowance Table shown on page 5.

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- If there is one track, and the gross area of the PFF meets area required to serve the AP, regardless of whether the track meets the required CFM area, this component is considered to be in compliance.
- If PFF components are brought into compliance with the above standards and the facility is a maximum of 10% over the allowed gross square foot area, the facility is considered to be in compliance. If the component sizes cannot be sized to meet the space standards defined above without exceeding a 10% overage, the PFF should be renovated or replaced to achieve a more efficient building design.

Facility Evaluation - Quality Standards

Standards for new construction should meet the quality standards described in Section IV - Building Design Criteria. Renovation of existing facilities should be evaluated on a case by case basis.

Design Concepts



A. Background

History of Development

Headquarters, Community and Facility Support Centers (CFSC), with the Corps of Engineers, have developed new design standards for Physical Fitness Facilities (PFF) for military bases in and out of CONUS. This report presents four PFF buildings to serve authorized populations ranging from 250 to 10,000. The facilities are categorized as X-Small, Small, Medium and Large. Standard increments have also been developed to accommodate populations over 10,000.

In order to function as a PFF, a facility must, at a minimum, include the following Critical Function Modules (CFM):

- Fitness Module (cardiovascular, circuit and free weight areas)
- Exercise Module (exercise rooms for instruction i.e. aerobics)
- Structured Activity Module (racquetball)
- Gymnasium Module (suitable for basketball and volleyball)
- Indoor Jogging Track
- Locker / Shower / Sauna Module



To test the adequacy of the indoor spaces for each PFF, national participation statistics were used to predict the recreational interests of active duty personnel. The national participation statistics, from a civilian survey of approximately 50% men - 50% women, were adjusted to fit a military base demographic of 80% men - 20% women. National survey responses were narrowed to the 18-44 year age group which represents 96.9% of the active duty army personnel.

Each module was tested and adjusted to verify its ability to accommodate the recreation, fitness and health interests of Active Duty (AD) personnel during peak times. Peak use varies from activity to activity. For activities requiring instruction or teams, peak use fluctuates between 50-60% of the hours of operation. For walk-in and individual activities such as fitness or running peak use varies between 80-90% of operating hours. The total hours of operation are 100 per week and reasonable attendance is assumed. Utilization worksheets for all four facilities are provided in the Appendix.

Findings and Recommendations

Utilization testing of Fitness, Exercise and Non-Structured Modules confirms that program areas are adequately sized to meet demand even when civilian statistics for fitness are nearly tripled. Module areas that fall short of meeting peak demand are Gymnasium (Medium and Large), Racquetball (Medium and Large) and Jogging Track (Large).

Recommendations

Gymnasium Module

- a) Constructing additional courts is not recommended to meet the short fall. A 50' x 94' court is a large area relative to the number of participants that can be accommodated for a basketball or volleyball game. Constructing and maintaining new courts is not an economically feasible solution to providing more game time. Programming half-court games, extending program hours, and providing outdoor courts are all viable alternatives.
- b) Recreation trends over the past ten years show steady interest in basketball but a downward trend in volleyball. Overall, national participation for volleyball for all age groups dropped from 25.1% in 1989 to 11.7% in 1999. This trend may result in a lower demand for volleyball court time.
- c) A contingency space has been programmed into each Physical Fitness Facility. In smaller facilities, this space does not represent an area large enough to accommodate a full court (4,700SF). However, this Structured Activity Space can be used to accommodate a multipurpose area for court overflow or additional racquetball or squash courts, spinning studio, climbing wall, gymnastics facility, batting cages or golf driving / putting range. Larger facilities may allocate this space for additional gymnasium courts, in-line hockey or indoor soccer. This activity space should be programmed on a case by case basis to meet demand.

Racquetball Court

a) Recreation trends over the past ten years show a steady decline in racquetball of 8.2% in 1989 to 3.2% in 1999. Meeting the shortage in peak demand can be satisfied by using the Structured Activity Space for an additional court. The contingency space for every building size easily accommodates an additional racquetball or squash court.

Jogging Track

a) Exercise walking, jogging and running are popular activities. Walking has grown 20% over the past ten years and is becoming a staple of recreational activity for all age groups. National statistics do not separate survey responses by indoor track, treadmill or outdoor participation. Notwithstanding, each facility will provide a minimum of one suspended track surrounding the gymnasium. Facilities in extreme climates can expand track areas by looping the track around other indoor components. Need should be reviewed on a case by case basis.

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B. Physical Fitness Facility (PFF) Space Allowance Table

Net and gross areas for four PFFs (X-Small, Small, Medium, Large) are itemized below. These spaces have been sized and tested for ability to meet peak demand based on a recommended square foot per person area published by the National Intramural-Recreation Sports Association (NIRSA) Space Standard for Indoor Facilities.

CFM ComponentNIRSA Recommended AreaExercise Module - Aerobics50SF per participantExercise Module - Non-Structured125SF per participantGymnasium Court - Basketball14 participants + 4 rotating inGymnasium Court - Volleyball16 participants + 4 rotating inFitness Module50SF per equipment station65SF per free weight stationStructured Activity - Racquetball4 participants per 800SF Court

Indoor Track 1 runner/ 20 lineal feet

CMATT

An "Increment" program area is provided to increase the Large facility to serve authorized populations that exceed 10,000. The Increment area will serve 5,000 persons. Thus, a population of 20,000 requires a Large PFF

building area plus two Increment building areas.

Y SMALL

		X-SMALL	SMALL	MEDIUM	LARGE	INCREMENT
CRITICAL FUNCTION AREAS &		(251-1,000)	(1,001-3,000)	(3,001-6,000)	(6,001-10,000)	5,000 Incremt.
TOTAL PFF BUILI	DING AREA	population	population	population	population	over 10,000 pop
	Cardiovascular Area	550SF	1,350SF	2,550SF	4,000SF	2,000SF
FITNESS MODULE	Circuit	800SF	1,150SF	1,500SF	2,300SF	1,150SF
	Free Weight Area	975SF	2,145SF	3,250SF	5,200SF	2,600SF
	Number of Stations	42	83	131	206	103
	Subtotal Fitness	2,325SF	4,645SF	7,300SF	11,500SF	5,750SF
	Storage Allocation	10%	10%	10%	10%	10%
	Storage Area	233SF	465SF	730SF	1,150SF	575SF
EXERCISE MODULE	Aerobic Exercise	1,200SF	1,650SF	2,800SF	4,500SF	2,250SF
	Non-Structured Exercise	1,000SF	1,250SF	1,750SF	2,500SF	1,250SF
	Subtotal Exercise	2,200SF	2,900SF	4,550SF	7,000SF	3,500SF
	Storage Allocation	10%	10%	10%	10%	10%
	Storage Area	220SF	290SF	455SF	700SF	350SF
SAUNA, LOCKERS SI	HOWERS, TOILET	2,400SF	3,800SF	5,850SF	8,800SF	3,000SF
STRUCTURED	Racquetball Courts	850SF	850SF	850SF	1,700SF	850SF
ACTIVITY	Other Struc. Activities	1,150SF	1,150SF	2,150SF	2,300SF	1,150SF
	Subtotal Struct. Act.	2,000SF	2,000SF	3,000SF	4,000SF	2,000SF
	Support for Other Struct.	10%	10%	10%	10%	10%
	Storage Area	115SF	115SF	215SF	230SF	115SF
	BB Courts (Gym)	10,200SF	17,400SF	24,600SF	31,800SF	8,400SF
GYM MODULE	Subtotal Gym	10,200SF	17,400SF	24,600SF	31,800SF	8,400SF
	Courts	1 court/s	2 court/s	3 court/s	4 court/s	1 court/s
	Support Allocation	10%	10%	10%	10%	10%
	Support (Tlt. & Stor.)	1,020SF	1,740SF	2,460SF	3,180SF	840SF
INDOOR TRACK		1,500SF	2,100SF	2,650SF	3,200SF	0SF
TOTAL NET OF MOD	ULES	22,213	35,455	51,810	71,560	24,530
MISCELLANEOUS	25%	5,553	8,864	12,953	17,890	6,133
TOTAL GROSS AREA		27,766	44,318	64,763	89,450	30,663
NOMINAL GROSS AREA IN METRIC		2,580	4,120	6,020	8,310	2,850
ACTUAL SF BASED ON METRIC		27,771	44,347	64,799	89,448	30,677

Indoor Track is calculated at 50% of actual area in accordance with Army criteria.

C. Allocation of Facilities - Programming

Method of Allocation

Physical Fitness Facilities are allocated on the basis of Authorized Population (AP). Authorized population is counted as follows:

100% of Active Duty personnel (AD)
25% of AD Dependents
10% of Civilians (in CONUS) if they are 60% of the total workforce

of Civilians (in CONUS) if they are 60% of the total workforce of Civilians (OCONUS) regardless of percentage of workforce

New Construction

If no PFF exists on post, the procedure for allocating facility size is to calculate AP and reference the Authorized PFF Space Allowance Table on Page 5. Recommendations are presented in Section III of this manual to establish criteria for designing, constructing and equipping a new facility.

Existing Facilities

If there is an existing PFF on base, the procedure for assessment is:

- Calculate total AP
- Determine the Authorized PFF Space Allowance (see below)
- Measure PFF from outside wall to outside wall (gross square feet)
- Inventory and measure interior spaces (net square feet)
- Compare actual net and gross areas to Authorized PFF Allowances
- Identify deficits
- Identify surplus
- Analyze the facility for conformity to minimum ISR quality standards
- Record inadequacies or inefficiencies (surplus areas)

Since facilities are allocated solely on the basis of authorized population, it is important to accurately calculate the total authorized population. Army guidelines provide for only 25% of dependents to be counted in the AP. DoD statistics report that Fifty-percent of active duty personnel are married with an average of 2.83 dependents. Failure to accurately count the total Authorized Population may result in a facility that is undersized. Some of the consequences of an under-programmed PFF will be overcrowding and shortened life-span of building resources and equipment

Assumption

A chart illustrating a prototypical demographic breakdown of an Authorized Population of 1,000 persons is shown on the next page. Studies to test module sizes assume the peak user group for this prototype is AD personnel that makes up 74% of the total AP. The current DoD demographic profile for activity duty personnel in the DA is 85% Men and 15% Women. The DoD projects that within ten years the demographic split will be 80% Men and 20% Women. An overall male/female demographic for a total installation with an AD split of 80/20 Men/Women is estimated to be 60% Men and 40% Women.

	Estimated Authorized Population			1000	total
	Active Duty			739.0	74%
A	Married			369.5	
В	Unmarried			369.5	
C	Ratio of Dependents/Married	2.83 x	369.5	1045.7	
	(based on DOD statistics)				
D	Actual Base Population			1784.7	
E	Married	100% x	A	369.5	
F	Unmarried	100% x	В	369.5	
G	Dependents	25% x	C	261.4	
	Total Authorized Users	•		1000.4	

10-Year Projected AD Breakdown = 80% Men, 20% Women

	Demographic Profile of Adult Population					
Н	100% of AD Unmarried Men	80% x	В	295.6		
I	100% of AD Unmarried Women	20% x	В	73.9		
J	100% of AD Married Men	80% x	A	295.6		
K	100% of AD Married Women	20% x	A	73.9		
L	Female Spouses	100% x	J	295.6		
M	Male Spouses	100% x	K	73.9		
	Adult Population			1108.5		

Projected Males on Base	60%	H+J+M	665.1
Projected Females on Base	40%	I+K+L	<u>443.4</u>
			1108.5

The two charts above illustrate the demographic profile of a CONUS installation with a civilian workforce of less than 60%. This installation qualifies for an X-Small PFF. The AP of 1,000 is comprised of 50% unmarried AD and 50% married AD with 2.83 dependents. This emulates the 2001 DoD statistic for the DA overall. The chart demonstrates that a PFF designed to accommodate an AP of 1,000 may have an actual installation population of 1,784.

The total Dependents (G) are assumed to be spouses and children. Children are expected to visit the PFF during off-peak times. The peak user group, creating demand in early morning and after-work hours, is expected to be adults. The lower chart illustrates that the actual adult population is 1,108 with a projected demographic of 60% Male and 40% Female.

It is unlikely that all 1,108 adults will visit the PFF at peak times. Some AD will be on-duty and spouses may be at home with children. For purpose of this study, the peak user group for all facilities is assumed to be 74% of the AP which equates to almost 100% of the AD personnel. The demographic profile of 80/20 Men/Women is used, even though 60/40 represents the overall base demographic. Depending on the MACOM and installation mission, the AD demographic may change, affecting participation statistics and utilization. Adjustments should be made to PFF Space allowances if the Male/Female population shifts more than 10% in either direction. See Section IV - Appendix (Page 41) for guidance in making adjustments.

Programming

Programming a Physical Fitness Facility (PFF) requires several steps to accommodate the Army's goals to provide adequate PFF facilities at every installation.

- 1. Determine if there are any PFF(s) existing on the installation already. If a PFF(s) already exists on the installation, determine whether the existing PFF(s) will be demolished or converted to some other use as part of this project, or shortly after the new facility is constructed, such that this new facility will be the only PFF on the installation. If no PFF exists, or the existing one will be removed from the inventory once the new one is built, use the gross areas provided in the PFF Space Allowance Table on Page 5 which is based on the authorized population of the installation.
- 2. If there are PFF facilities that will remain after the new facility has been constructed, determine if a Quantity Worksheet has been completed for the installation, which shows the total gross area of the facility as well as the net areas of all the functional modules.
 - a. If the Quantity Worksheet has been completed, use the results from the worksheet to program the new facility. If the result indicates that you must build more than authorized in order to meet C1 status, please obtain MACOM approval as required. Also, evaluate the space in your existing PFF(s) to determine if the space could be utilized more efficiently, or if it would be wise to remove some of the facilities from your inventory. Utilize the Quality Worksheets from the ISR to help determine if a facility should be removed or renovated.
 - b. If the Quantity Worksheet has not been completed, please complete the worksheet and follow the procedure above. If a Quantity Worksheet cannot be completed before programming the new facility, use the Standard Criteria to determine the allowed area for the authorized population of the installation. Subtract from that number the total gross building area of any PFF that will remain. The result is the amount that may be programmed for a new PFF. Realize that without the Quantity Worksheet, this new building may not meet the requirements for C1, and another construction or renovation project may be required in the out years.

- 3. In the overall gross areas for PFF, an allowance has been made for mechanical and electrical spaces. The "Miscellaneous Area" is the space to accommodate lobby, circulation, administration, wall thickness, and mechanical/electrical spaces. This area is calculated at 25% of the total net area of the functional modules. If there are mechanical and/or electrical requirements that result in larger mechanical and/or electrical rooms, this additional space must be added during the programming phase. FUNCTIONAL MODULES MAY NOT BE REDUCED IN AREA TO ACCOMMODATE MECHANICAL AND/OR ELECTRICAL REQUIREMENTS. Areas provided for each functional module are directly related to the requirements in the Installation Status Report (ISR). Reduction of these areas will result in a lower "C" rating for the installation, even after the construction of a brand new facility.
 - e. Computation of Gross Areas. The gross area of facilities will be computed according to the definition in Chapter 5 of the TI.

 Unless otherwise noted, mechanical, electrical, and electronics equipment room space as required will be added to the gross areas shown in the following subparagraphs when determining a single gross area figure for a project DD Form 1391.
 - f. Space Allowance Table (page 5) contains the space criteria for PFF. Generally these facilities include gear issue control, gymnasium, locker rooms, offices, exercise room(s), spectator area, storage, and toilet facilities. This type of facility is intended to be capable of supporting basic physical fitness skill training requirements. New PFF(s) will be designed in accordance with the approved Department of the Army (DA) Standard Design Packages, DEF 740-28-01 through DEF 740-28-06.

For each authorized population increment of 5,000 personnel over 10,000, an additional PFF space of 2,850 m² (30,677 ft²) gross area shall be added.

Functional Relationships & Module Design Criteria



A. Component Descriptions

Lobby

A well-designed lobby serves to not only welcome visitors to the fitness facility, but also to motivate them. Functionally, the lobby provides a passageway to organize the building. Referred to as "public space" the lobby physically leads visitors from the exterior to the control point. The control desk should be adjacent to the entry for check-in/out and equipment issue. This facilitates monitoring and restricting access to the building and gives all visitors an arrival destination. From the control point, users can be easily directed to major activity areas and support spaces. Open views into the gymnasium, fitness facility and other activity modules instantly define building function and capture user attention. These views also enable supervision of activities from the control desk.

Features that make the lobby an inviting space include lounges to provide refuge for anyone waiting for a friend or for court time. However, recreation facility lounge areas should not resemble airport waiting areas with tandem seating. Instead, seating should be placed to invite socialization and relaxation with features that include an oversized television, comfortable seating and kiosk or message center. Small cafe-style tables and chairs may be provided if vending machines are available.

The shape of the lobby can either be classically geometric or a lineal concourse. The mall concept is newer and integrates retail thinking. A long passageway increases visual connection to fitness elements, thereby advertising activities. Lobby orientation is influenced by other factors including sun angles, tree coverage and pedestrian /vehicular circulation. Site context, massing and material selection also impact lobby design.

The aesthetic impact of the lobby relies on the placement and quality of finish materials. Durability and maintainability play a significant role in the selection of finishes for high-traffic areas. In general, warm colors and soft textures are most successful at creating an ambiance that invites users to linger in the transitory space. Resilient flooring materials are easy to maintain and stand up to high traffic. Terrazzo or porcelain tile floors add durability and quality. Suitable wall materials include burnished or split-face block, masonry or epoxy-painted concrete masonry units. Lobby lighting should include a combination of fluorescent and incandescent sources and, if possible, allow for skylights and clerestories. Various ceiling heights and drywall bulkheads help to define lobby functions.

More than any other space in the facility, the lobby furnishings and fixtures contribute to forming the user's impression of the building. Furniture, display cases, refuse containers, plants, graphics and signage should be carefully coordinated.

Gymnasium

Large volume gyms are often neglected by designers because function overwhelms creative possibilities. However, with careful planning, these "big-box" spaces will respond to a wide variety of program needs.

No other space can accommodate multiple activities as well as the gymnasium. Through the use of simple devices like divider curtains, concurrent basketball, volleyball, and even tennis is possible. Suspend the running track above the floor and runners or walkers can overlook floor activities. Such a large volume can incorporate interior views at many levels to look across to racquetball courts, high ceiling lobbies, or climbing walls. Views to the exterior offer visual variety from the inside and add interest in the facility to passersby. Windows have the added benefit of bringing in natural light in what traditionally has been an artificially lit and harsh environment. In short, careful planning of even the most utilitarian elements can make the gymnasium the visual and functional hub of the facility.

High performance materials, color, lighting, and ventilation are key elements that make gymnasiums attractive spaces. Ventilation systems should be designed with adequate air changes to maintain a suitable activity environment. Recommendations are provided in Section IV of this report.

Color and lighting impact overall design. White or light colors for walls and ceilings can be easily combined with accent colors. Light colors are also reflective, making a large-volume space easier to illuminate. Darker colors hide marks on the walls, but absorb light requiring greater levels of artificial illumination. Primary light sources for gymnasiums are high intensity discharge (HID). Selection and placement of light fixtures is crucial to achieving even but not harsh illumination. Downlighting alone may cause hot spots and glare on the playing surface. Indirect lighting alone may not provide sufficient light for competitive play. The preferred solution is a combination of indirect and direct lighting that illuminates the entire space with a minimum amount of glare. Recommendations for light level are provided in Section IV.

Suspending the running track helps to reduce the apparent volume of the gym module, as well as provide an opportunity to introduce accent colors and decorative elements via the railings and structural supports for the track. Accenting selected elements within the entire space can create a sense of energy and excitement, or in softer tones create a more relaxed atmosphere. Every element within the volume must be considered for its functional and visual impact on the whole.

Bleacher seating, basketball backstops, and divider curtains are other elements that provide opportunities for accenting and highlighting the space. Not only used for activity control, divider curtains form one of the strongest visual elements in the space. Careful consideration of mounting height and the proportion of solid versus open mesh material can prevent divider curtains from blocking views, lowering light levels, and constricting an otherwise light and open volume.

Flooring materials have the greatest impact on user satisfaction. Select high performance wood floors that utilize neoprene shock pads for impact absorption to reduce injuries while maintaining near perfect ball return characteristics. Maple floors are the industry standard, but a wide variety of appearance grades are possible. Lower grades may reduce cost for the same performance, but allow undesirable visual variation in the boards. Synthetic sports floors also offer competitive cost and performance characteristics while allowing the introduction of colors and durability. To repeat, careful planning and a reasonable understanding of how each element affects the visual quality of the space are key to creating a superior gymnasium. Technical guidelines for track and flooring elements are in Section IV.

Diagrams included in this section will illustrate recommended court layouts and striping. The layouts follow regulations from nationally recognized sports associations like the United States Volleyball Association (USAV) and the National Collegiate Athletics Association (NCAA). It is recommended that new courts should conform to competitive standards nationwide. The correct volume for the gymnasium module starts with the proper court dimensions, clear heights, and sideline allowances.

Regulation Information from the USA Volleyball Rule Book

USA Volleyball (USAV) is the national governing body for the sport of volleyball in the United States and is recognized by the Federation International de Volleyball (FIVB) and the United States Olympic Committee (USOC).

Ceiling Height

The playing space is free from any obstructions to a height of 7 m (23') from the playing surface.

Playing Court

The playing court measures 18 m x 9 m (59' x 29'6").

Center Line

The axis of the center line divides the court into two team courts measuring 9m x 9 m (29'6" x 29'6") each.

Lines

All lines on the court are 5 cm (2") wide.

Boundary Lines

Boundary lines: Two sidelines and two end lines mark the playing court. All boundary lines are drawn inside the dimensions of the playing court.

Attack Lines

Attack lines are drawn in each team court so that the edge of the attack line farthest from the center line is 3 m (9'10") from the axis of the center line. Extensions of the attack lines outside the court shall be marked with five 6" lines spaced 8" apart to a total length of 70" (for national competition).

Area Around the Court (Free Zone)

The free zone surrounds the court with a recommended minimum width of 2 m(6'6").

Net Height FIVB, USAV, California Beach Volleyball Association (CBVA), Women's Professional Beach Volleyball Association WPVA

Net height for men, cooed mixed 6, & outdoor is 2.43 meters or 7'11-5/8". Net height for women, boy's 14-and-under & reversed mixed 6 is 2.24 meters or 7'4-1/8".

Net height for 12-and-under is 2.13m or 7'0". Net height for girl's 10-and-under is 1.98m or 6'6".

Information from the NCAA for Basketball Court Dimensions and Markings

The ideal playing area is 50 feet wide by 94 feet long with at least 3 feet (preferably 10 feet) of open area outside the boundaries.

In addition to sidelines and end lines, markings include a center circle; a division line through the center circle from sideline to sideline, dividing the court into two equal parts; a free-throw lane (12 feet wide) and free-throw line (15 feet from the backboard) at each end of the court and a broken restraining line outside the court 6 feet from, and parallel to, the end lines. The center circle has a 6-foot radius. The area inside the circle may not be occupied by the eight nonjumpers until one of the two jumpers has tapped the ball.

The three-point arc, measured 19 feet 9 inches from the center of the basket, serves as the boundary line to let the referee know that three points shall be awarded for a successful field-goal attempt from beyond the line.

U.S. Army Physical Fitness Facilities

Fitness Module

Strength, cardiovascular and free-weight areas have moved from the dark recesses of gymnasium basements to become the most sought after and visible components of fitness facilities. High schools have incorporated fitness training into standard curriculum. Colleges now recognize that students come to their campus with a well-founded interest in fitness and wellness pursuits. Most young recruits will also be familiar with an array of workout equipment. Since military readiness is inextricably connected with fitness, this component should offer a stimulating environment that promotes an ongoing interest in physical proficiency.

Because of this enhanced purpose, army fitness modules should be designed for function and aesthetics. Many private sector facilities are used as much for socialization as fitness. Aesthetics in these private niche facilities is largely market-driven with interiors that sometimes resemble a nightspot. Community and collegiate recreation centers must appeal to a wider group satisfying more diverse expectations. These facilities generally benefit from a timeless design approach. Army fitness facilities should adopt a similar tactic. Newer thinking in fitness design integrates all equipment into one area, but creates separations in function by using halfwalls, dropped ceilings, and changes in flooring materials. Cardiovascular and selectorized equipment are typically placed on antimicrobial, rubberbacked carpeting offering acoustical properties. Carpet tiles or carpet borders help to define pathways around the equipment. Free weight equipment must be directly visible and directly accessible to the reception (control) desk. Recommended free weight flooring is rubber interlocking tile or a synthetic flooring material. Dispersing cardiovascular equipment within lobbies or overlooks helps to bring movement throughout the facility. Cardiovascular "theaters" often include overhead mounted television monitors. In all, electrical considerations must be taken into account to power not just existing equipment, but future equipment as well.

Lighting is crucial to providing a stimulating fitness environment. Indirect lighting and a visual connection to indoor and outdoor vistas will have a positive influence on the users' frame of mind. An exposed, painted ceiling can contribute a high-tech look, providing some other acoustical elements are incorporated to offset the hard-surface. Wall materials should be durable but not institutional. Mirrors, graphics, soft textures and wall-carpeting will help to soften the entire fitness environment. Recommendations for finishes are provided in Section IV of this report.

Regardless of the finishes and other design features, inadequate ventilation and temperature control will result in an undesirable workout experience. Mechanical systems should be capable of adjusting to different internal loads and occupancies at different times of the day. Recommendations for temperature and humidity levels are provided in Section IV of this report.

U.S. Army Physical Fitness Facilities

Exercise Module

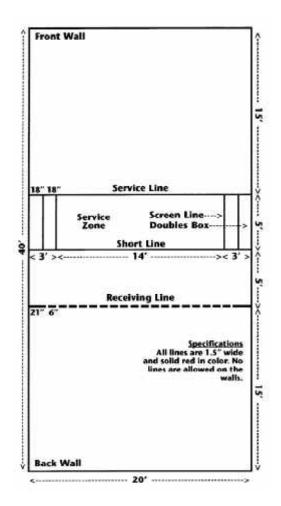
Over the past 30 years, group fitness activities have maintained steady growth and progression. Aerobic classes of the seventies were characterized by strained muscles and high impact movement in bare feet. Frequent injuries quickly taught instructors serious lessons about exercise safety. Since that time, improvements in flooring, footwear, equipment and instruction technique have helped to generate safer, low impact movements that prevent injury.

Today, the list of popular classroom activities continues to grow including conditioning, yoga, martial arts, "boxercise," dance, spinning, urban rebounding, etc. All of these activities provide aerobic or "cardio" conditioning. Some programs incorporate strength training by using handheld weights, elastic bands and stability balls.

Fitness programs that support military readiness may include many of the above activities combined with individualized workouts in the fitness module. Providing adequate programming will be the greatest challenge for PFF facility operators. In addition, young recruits may have a desire for activities that imitate extreme sports. Flexibility in classroom design will be essential to accommodate a variety of programs. Equipment setup and tear down time will effect the rollover of the exercise modules. Some studios may need to be dedicated such as spinning. Although the stationary bikes can be moved to the side walls to accommodate other floor activities, the loss of class time could be substantial during peak hours.

The staff for each PFF should monitor the popularity of programs and equip the exercise modules accordingly. The desire to participate in group exercise will be influenced not only by trend, but also by the quality of the instructor. A skilled and enthusiastic instructor will quickly create demand. Hiring and retaining proficient instructors is key to filling group programs.

Each PFF is programmed to have two studios with adjacent storage. Design criteria for exercise modules is provided in Section IV and includes data for flooring, lighting and environmental conditions.

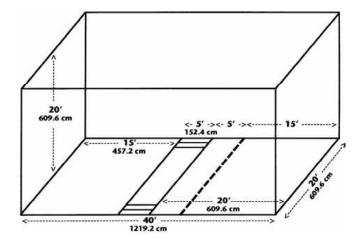


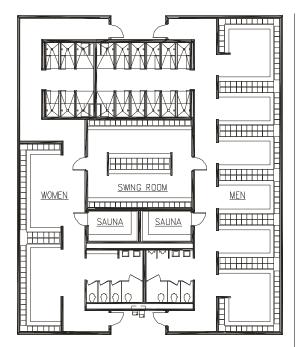
Structured Activity Areas

Structured activity areas have very specific design requirements. However, the orientation of these components is subjective. A minimum of one racquetball court is programmed for each PFF. An additional Structured Activity Area space is also programmed and will be allocated on a case by case basis to satisfy recreational demand. Additional racquetball courts can be provided with this allocation, or other elements that could include a spinning studio, climbing wall, squash court, etc.

Racquetball participation is on the decline in the United States decreasing from 8.2% in 1989 to 3.2% in 1999. These spaces are expensive to construct and are not easily adapted to other use. A careful review of the need for racquetball courts should be reviewed by each facility before constructing new or additional courts. That said, court play is exciting to watch. A highly competitive game will draw spectators who may be on the way to or from their own activities. Views into racquetball from the lobby or main corridor system add vitality to the building.

The United States Racquetball Association (USRA) and International Racquetball Federation (IRF) provide specification criteria for court design and construction. Courts built to USRA/IRF standards will be suitable for all types of play including international matches. Diagrams on this page are provided on the USRA website. Design criteria for racquetball courts is provided in Section IV of this report.





Sauna, Lockers, Showers, Toilet

Important locker room design elements include aesthetics, environment, layout and location. Every effort should be made to provide a direct connection between locker facilities and major activity spaces. Design options for consideration include family change rooms or satellite uni-sex change rooms for after-hour use. Convertible locker room space that is accessible from both male or female locker rooms will provide a "swing" space to increase locker room capacity for special events. An example of a locker room design incorporating swing space is shown in the left margin.

Other key objectives in locker room design include selecting eye catching colors, using maintenance-free materials and providing an adequate ventilation system. Every material used in the shower, toilet, locker and sauna area has color. Coordinating these color finishes, as well as other building materials, should be done in consultation with design professions. In general, multicolored schemes are more appealing than pallets that are limited to shades of gray or neutrals. Manufacturers have broadened color options over the last decade and simplified the specification process. Most tile manufacturers provide preset tile patterns in sheets. Standard patterns are cost effective and require minimal color selection. These floor patterns are an excellent method of adding design quality for very little money. Coordinating wall tile patterns, wall graphics, paint, toilet and shower partitions, and locker room flooring will tie these elements together and unify the entire locker room space.

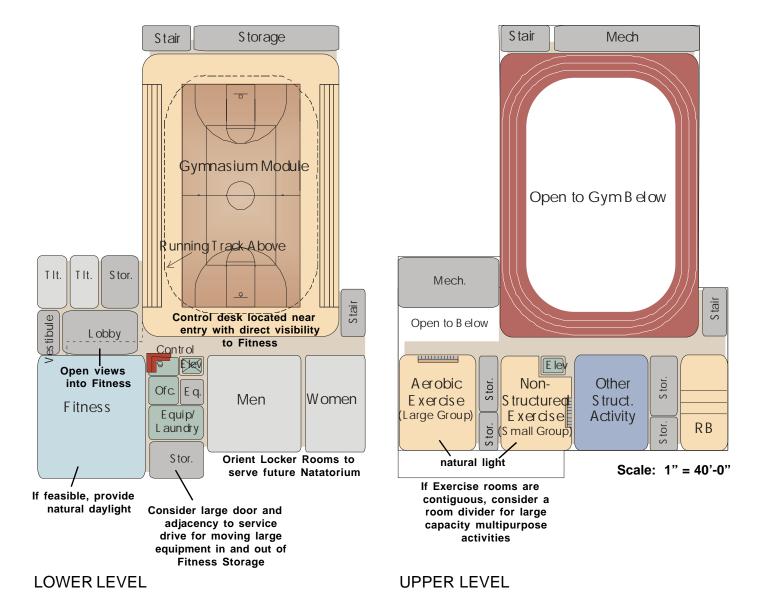
Concrete masonry unit (CMU) wall construction is recommended for locker room areas. Wall finishes in wet areas should be nonporous materials such as glazed ceramic wall tile, glazed CMU, or unglazed porcelain tile. Wall tile can be carried throughout non-wet areas or CMU can be filled and painted with an epoxy coating. Slip resistant materials or unglazed porcelain tile should be used for floors in all wet areas. Epoxy grouts for floor tile should be darker to offset the discoloration that will come with time. Antimicrobial, pvc-backed carpet with welded seams is an ideal finish for locker areas. The carpet provides an acoustical element to help muffle the sound of metal locker doors.

Recommended ceiling materials include plaster ceilings in wet areas and a moisture-resistant suspended ceiling in locker room areas.

Maintenance of wet areas and locker rooms is the final, and most important, component in providing an appealing recreational experience. Even though most users may change and shower in a short period of time before departing, every user in the facility will take notice of neglected locker room areas. Instituting adequate procedures and daily inspection will go a long way to extending the life-span of finishes.

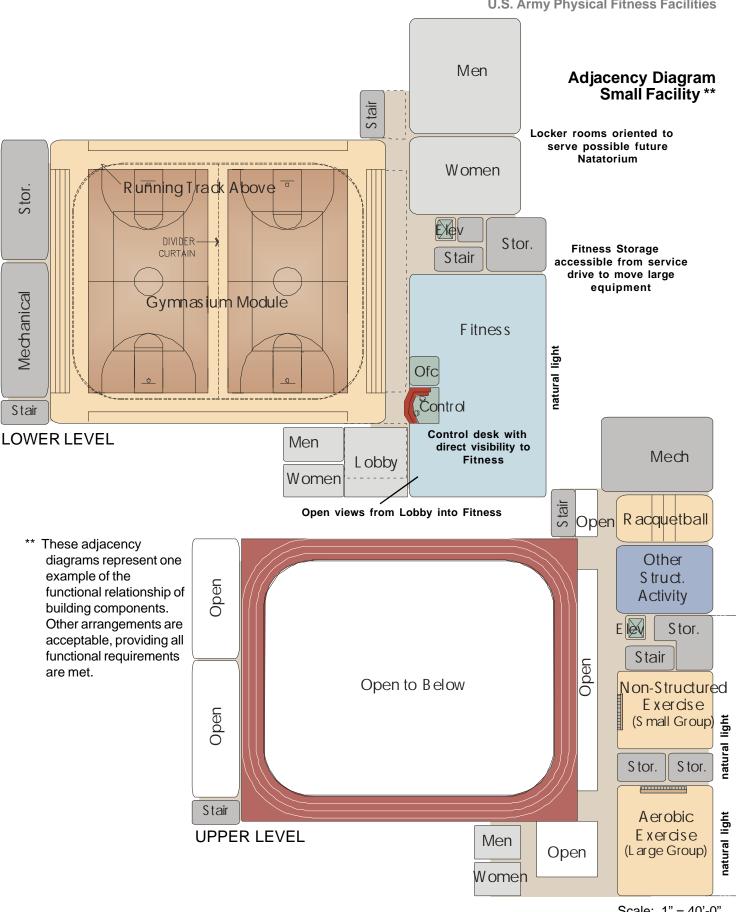
Specific recommendations for materials and finishes can be found in Section IV of this report.

Adjacency Diagram - X-Small Facility **

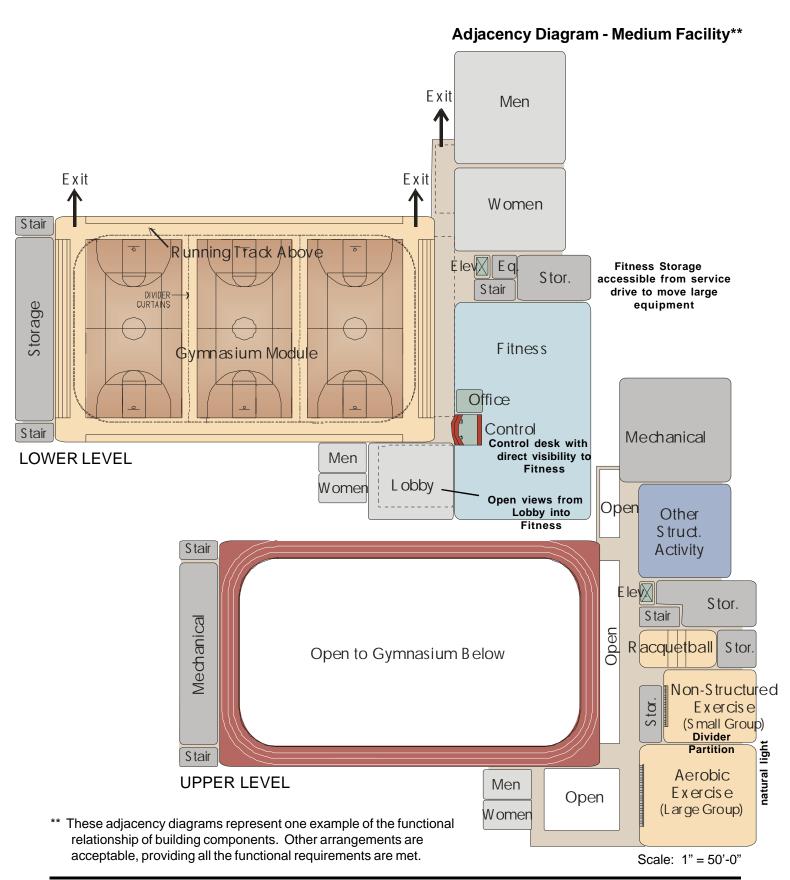


^{**} These adjacency diagrams represent one example of the functional relationship of building components. Other arrangements are acceptable, providing all functional requirements are met.

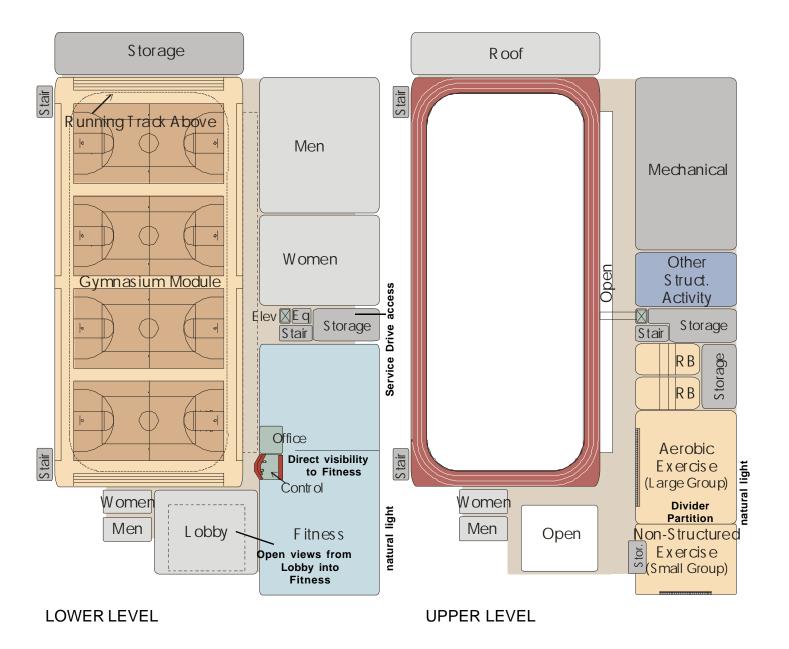
U.S. Army Physical Fitness Facilities



Scale: 1" = 40'-0"



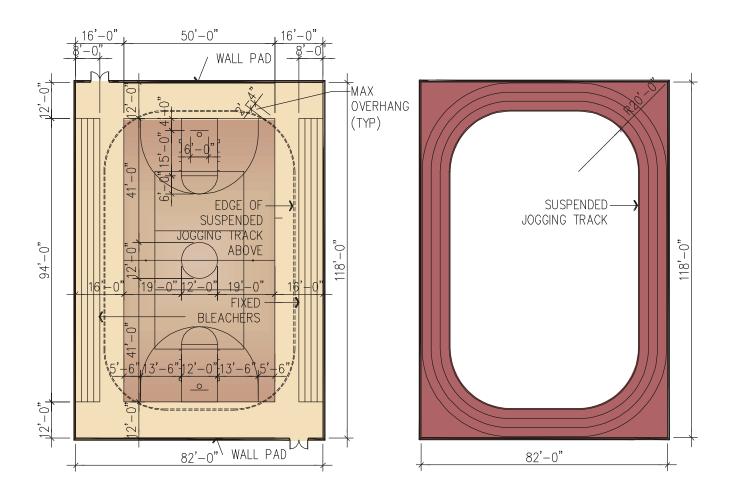
Adjacency Diagram - Large Facility**



Scale: 1" = 60'-0"

^{**} These adjacency diagrams represent one example of the functional relationship of building components. Other arrangements are acceptable, providing all the functional requirements are met.

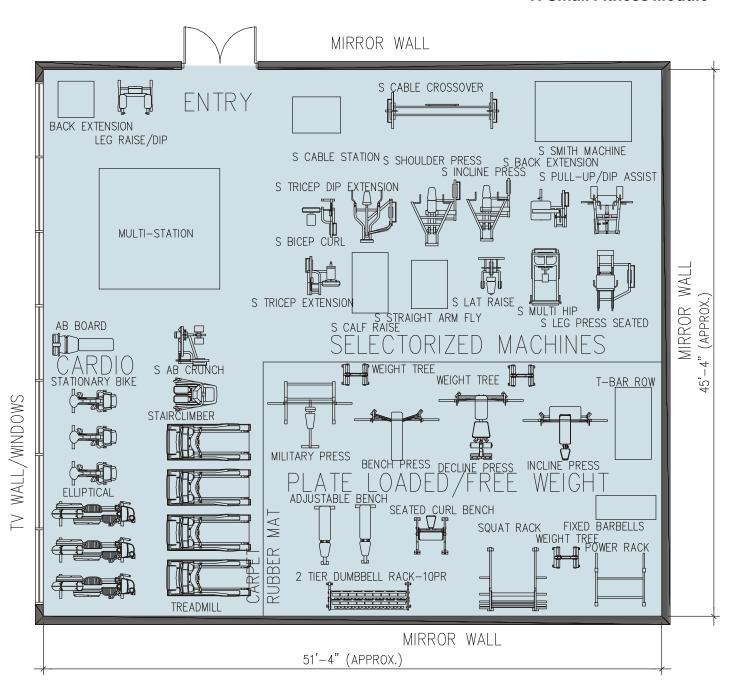
X-Small One-Court Gymnasium / Suspended Track



One-Court Gymnasium Module Total Square Feet = 9,676 Track Total = 3,838 Square Feet

Scale: 1/32" = 1'-0"

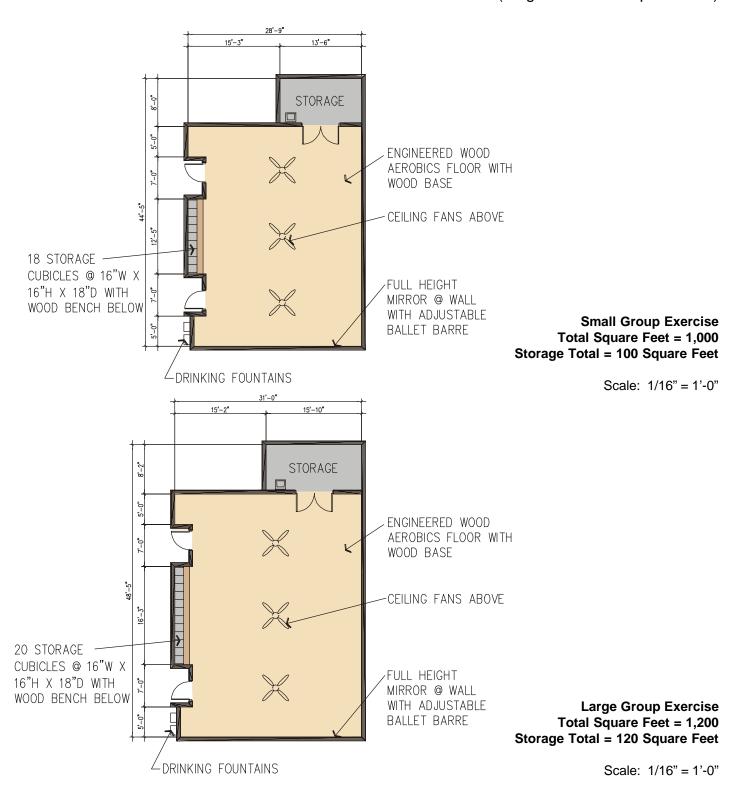
X-Small Fitness Module



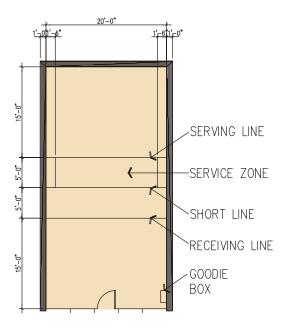
Fitness Module
Total Square Feet = 2,325

Scale: 1/8" = 1'-0"

X-Small Aerobic & Non-Structured Exercise Module (Large & Small Group Exercise)



X-Small, Small and Medium - Structured Activity Module (Racquetball Court)

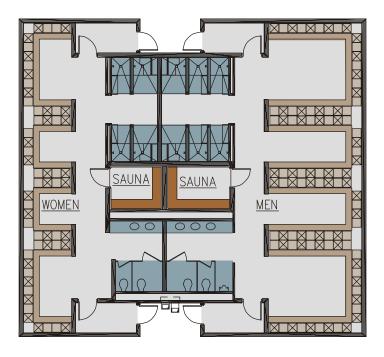


OBSERVATION AREA

Racquetball Court Total Square Feet = 800

Scale: 1/16" = 1'-0"

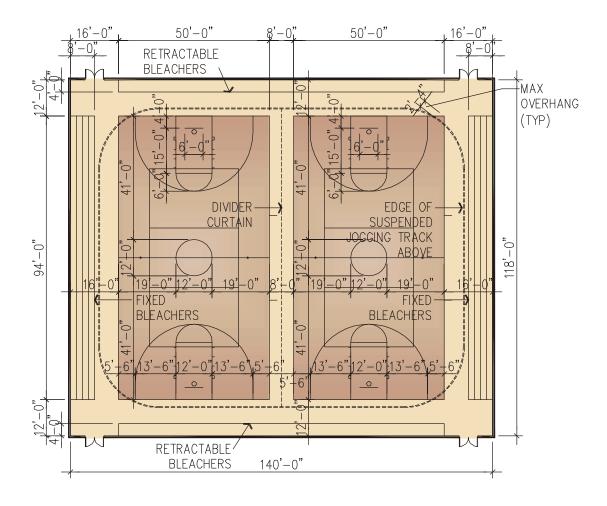
X-Small - Sauna, Lockers, Toilet Module



Sauna, Lockers, Toilet
Total Square Feet = 2,550 (288 total lockers)
Men - 144 Lockers - 48 full, 96 double tier
Women - 84 Lockers - 28 full, 56 double tier

Scale: 1/16" = 1'-0"

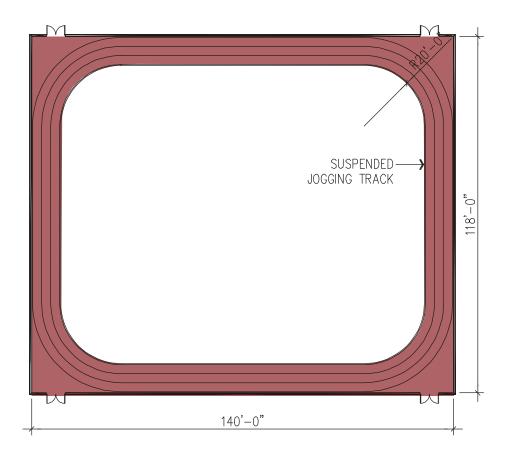
Small Two-Court Gymnasium



Two-Court Gymnasium Module Total Square Feet = 16,520

Scale: 1/32" = 1'-0"

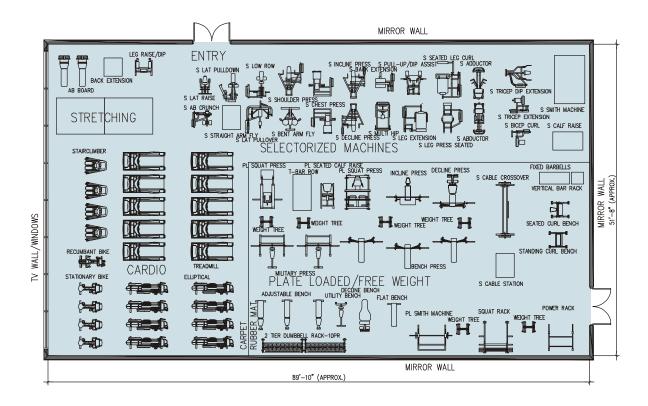
Small Two-Court Gymnasium Suspended Track



Two-Court Gymnasium Module Track Track Total = 4,958 Square Feet

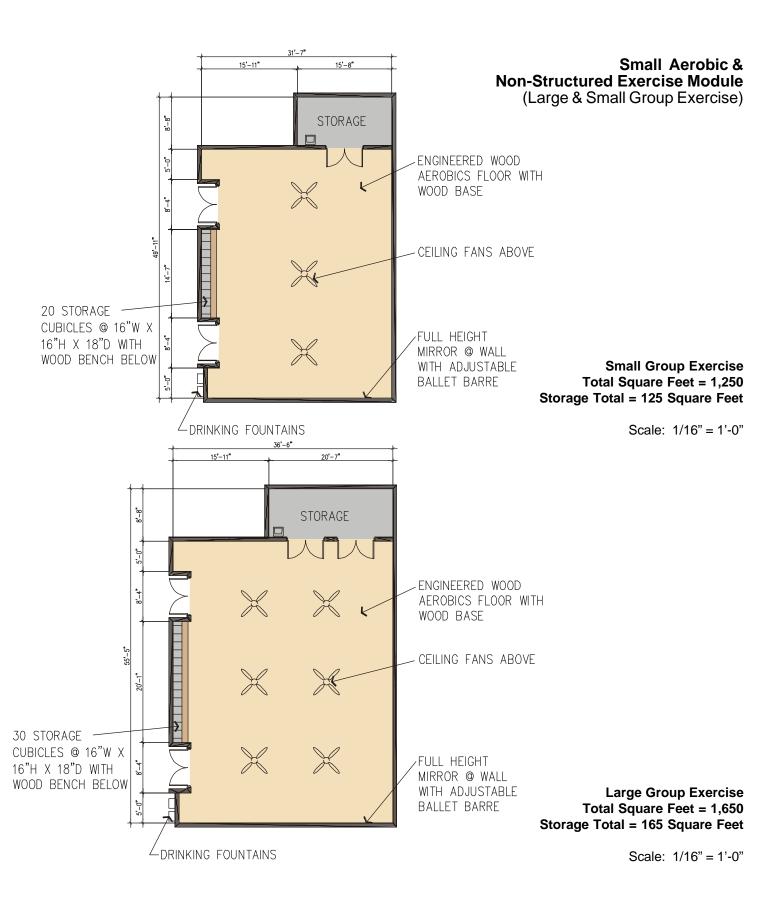
Scale: 1/32" = 1'-0"

Small Fitness Module

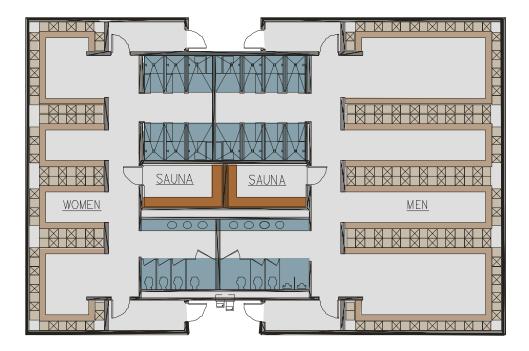


Fitness Module
Total Square Feet = 4,645

Scale: 1/16" = 1'-0"



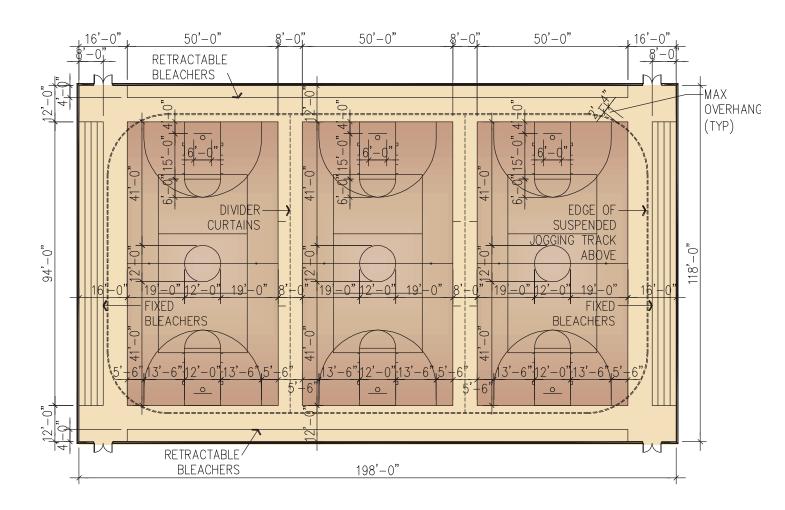
Small - Sauna, Lockers, Toilet Module



Sauna, Lockers, Toilet
Total Square Feet = 3,630 (354 total lockers)
Men - 231 Lockers - 77 full, 154 double-tier
Women - 123 Lockers - 41 full, 41 double tier

Scale: 1/16" = 1'-0"

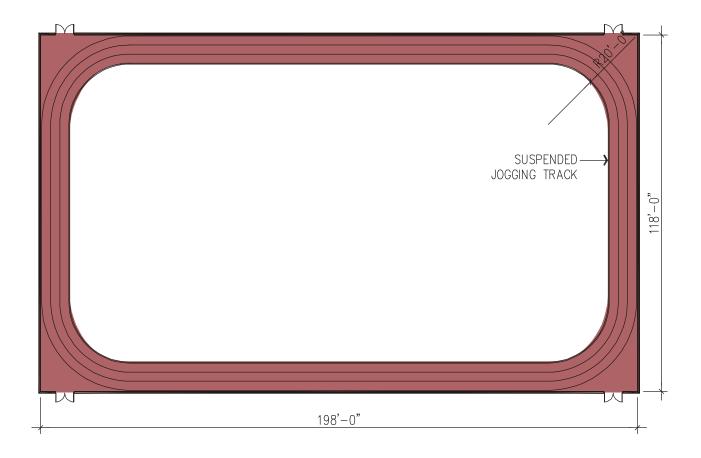
Medium Three-Court Gymnasium



Three-Court Gymnasium Module Total Square Feet = 23,364

Scale: 1/32" = 1'-0"

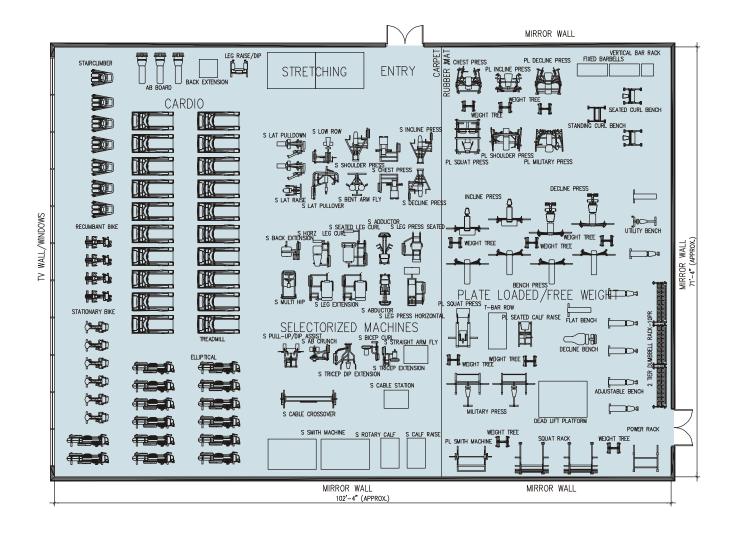
Medium Three-Court Gymnasium Suspended Track



Three-Court Gymnasium Module Track Track Total = 6,079 Square Feet

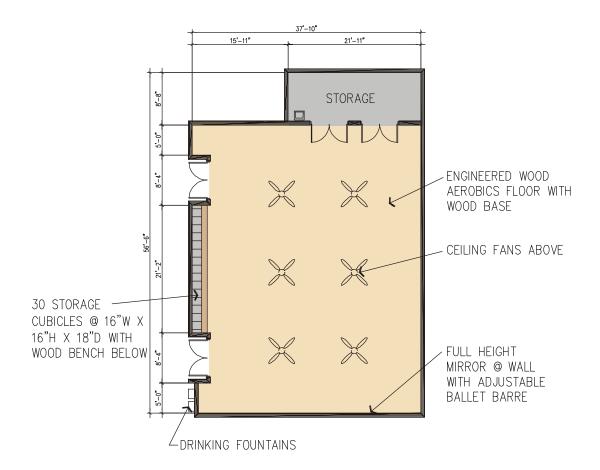
Scale: 1/32" = 1'-0"

Medium Fitness Module



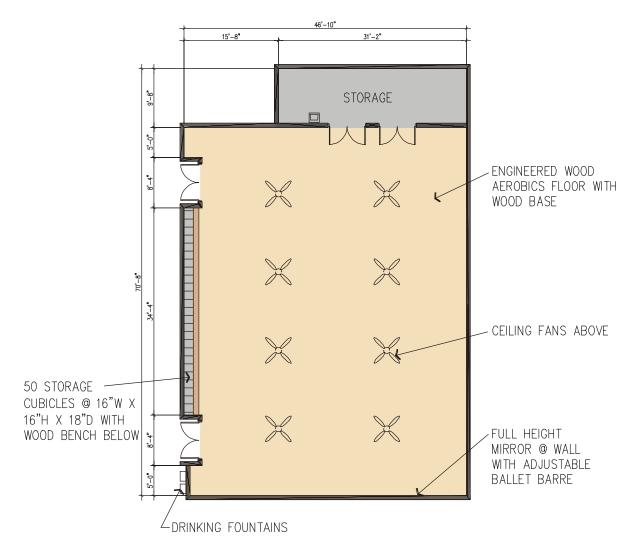
Fitness Module
Total Square Feet = 7,300

Medium Non-Structured Exercise Module (Small Group Exercise)



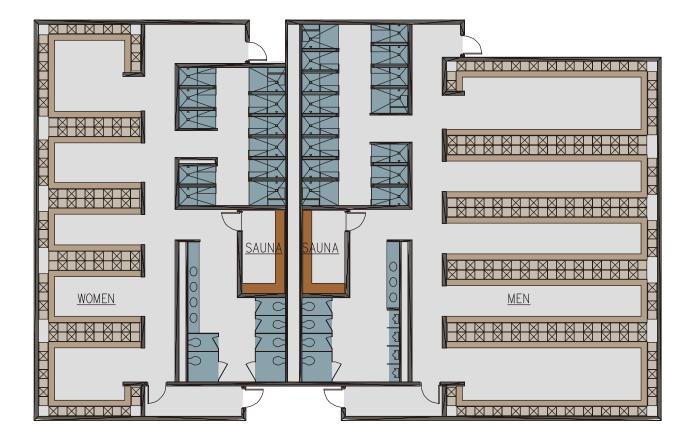
Small Group Exercise Total Square Feet = 1,750 Storage Total = 175 Square Feet

Medium Aerobic Exercise Module (Large Group Exercise)



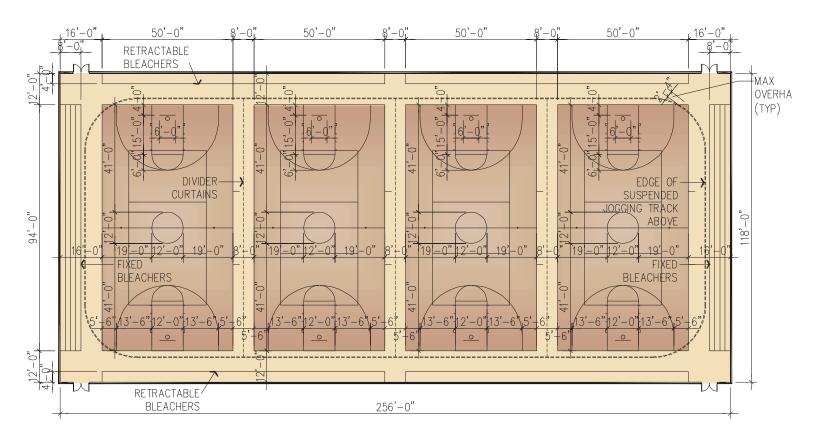
Large Group Exercise Total Square Feet = 2,800 Storage Total = 280 Square Feet

Medium - Sauna, Lockers, Toilet Module



Sauna, Lockers, Toilet
Total Square Feet = 5,887 (573 total lockers)
Men - 372 Lockers - 124 full, 248 double tier
Women - 201 Lockers - 67 full, 134 double tier

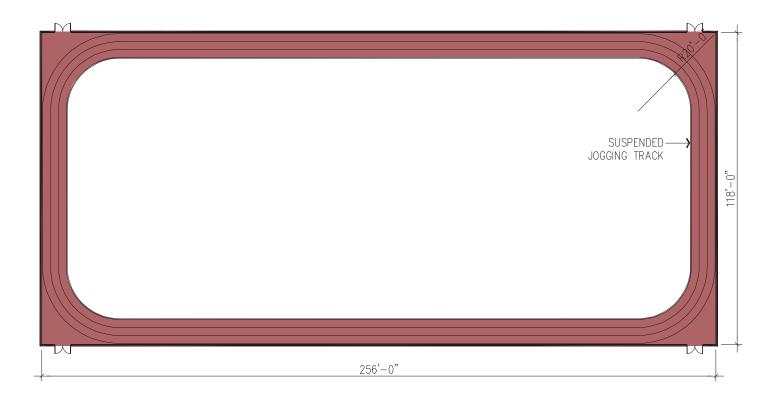
Large Four-Court Gymnasium



Four-Court Gymnasium Module Total Square Feet = 30,208

Scale: Not to Scale (Reduced to fit page)

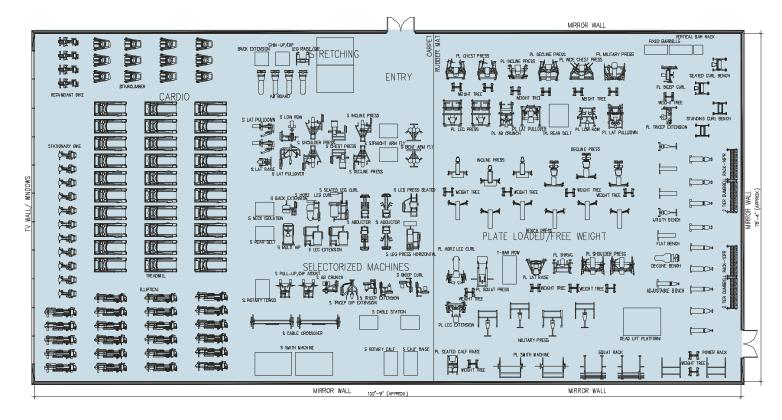
Large Four-Court Gymnasium



Four-Court Gymnasium Module Track Total Square Feet = 7,201

Scale: Not to Scale (Reduced to fit page)

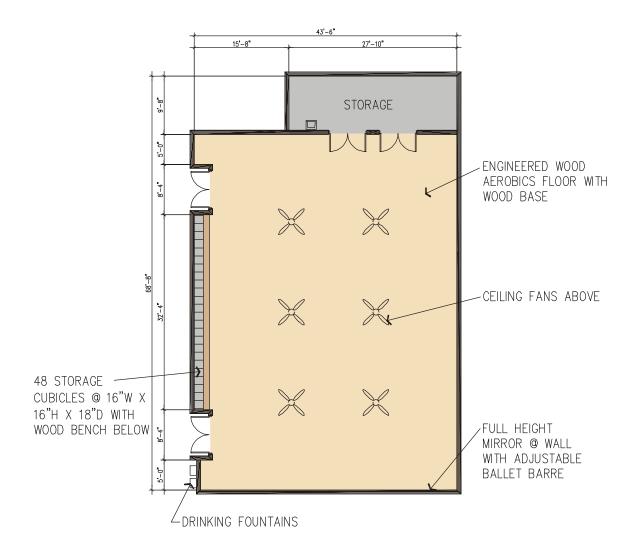
Large Fitness Module



LARGE FITNESS MODULE TOTAL SQ FT = 11,500

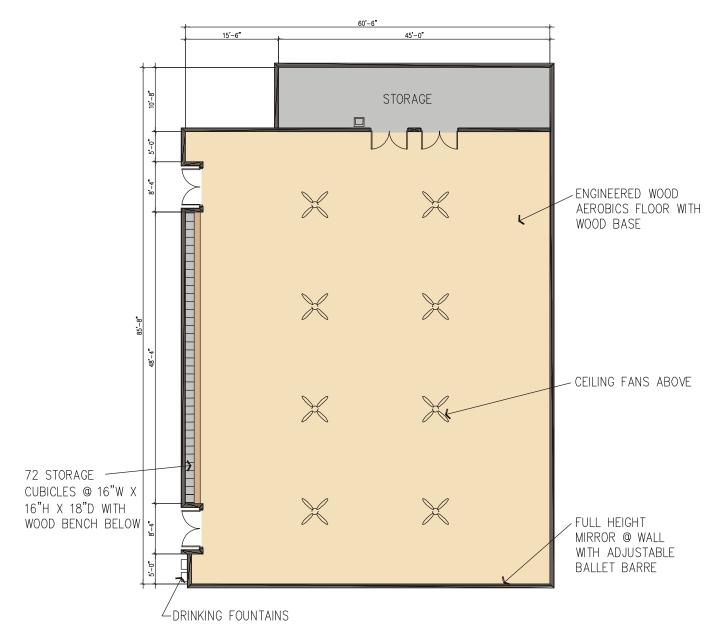
Fitness Module
Total Square Feet = 7,300

Large Aerobic Exercise Module (Small Group Exercise)



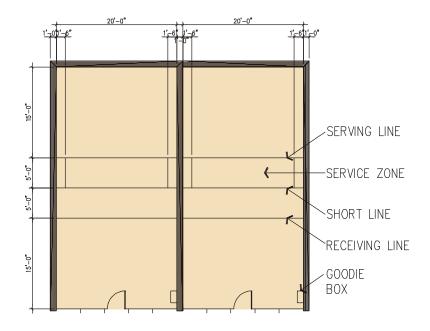
Small Group Exercise Total Square Feet = 2,500 Storage Total = 250 Square Feet

Large Non-Structured Exercise Module (Large Group Exercise)



Large Group Exercise Total Square Feet = 4,500 Storage Total = 450 Square Feet

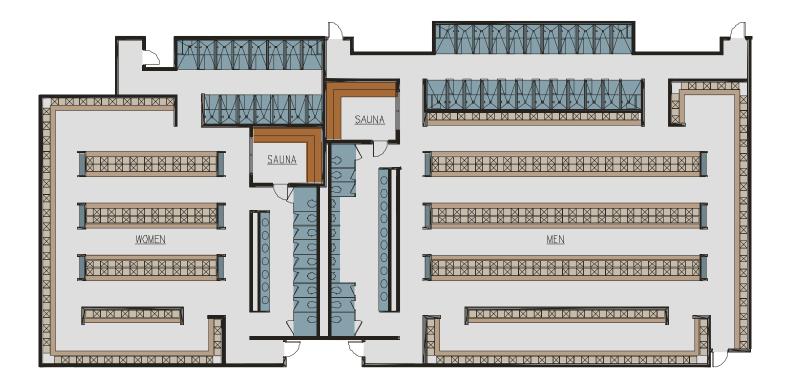
Large - Structured Activity Module (Racquetball Court)



OBSERVATION AREA

Racquetball Court Total Square Feet = 1,600

Large - Sauna, Lockers, Toilet Module



Sauna, Lockers, Toilet
Total Square Feet = 9,022 (855 total lockers)
Men - 557 Lockers - 185 full, 372 double tier
Women - 298 Lockers - 100 full, 198 double tier

Scale: 1" = 20'-0"



A. Site Criteria

Site Considerations

Site considerations for recreation facilities are generally no more restricting to placement and orientation that general construction of any large facility. The few exceptions are critical for proper performance of the most common site failures; water transmission and uneven settling under the 35K/ square foot or greater loads typical to recreation facility foundations. If feasible, building siting should be proximate to outdoor fields.

Soils testing: Retain a qualified geo-technical engineer to take borings on site and recommend foundation systems. Update existing soils testing older than 5 years, with new borings intermediate to the old locations. With new, undeveloped sites, it is recommended to increase the number of test borings beyond the four corners and one to two intermediate borings typical to a soils report of minimum scope. Maintaining floor flatness for slabs on grade and minimizing cracking requires an understanding of soils conditions across a 170' x 170 to 285' proposed footprint. To avoid being over-conservative in foundation sizing, in soils replacement, or groundwater protections allow the geo-tech to take ample borings to allow for a firm judgment. A 40 to 60 foot boring grid across the site, in variable soils conditions, is considered minimum. Expect a minimum 100 foot grid in historically stable soils.

Soils analysis will reveal any potential problems with situating a recreation facility on a particular site. Typical recreation facility foundations require a drilled or driven pier and grade beam application. Spread footings have a limited application to resist recreation facility loading, and would be confined to smaller one-story projections off the larger two story, open volumes.

Groundwater and runoff: The control of water flow around the site, site runoff and below grade ground water is critical to ensuring the long term viability of activity spaces that utilize special sports flooring. The technical guidelines point out that sports floor products are susceptible to failure in the presence of below grade moisture. Moisture contribution to concrete slabs on grade will warp wood floors and delaminate the adhesives in synthetic flooring. Properly installed vapor barriers beneath slabs can resolve most problems.

Caution: the presence of ground water within the frost depth of the foundation system typically warrants the use of a complete subsurface drainage system and/or the use of perimeter foundation drains. Loose or clayey soils will argue for piping all roof and site runoff into a controlled storm drainage system. Water flow across the recreation facility site from other properties will argue for foundation drains for the entire facility perimeter. Minimum recommendation for any soils conditions are: 1) foundation drain, and 2) minimize roof runoff onto grade. Pipe water away whenever possible.

Substandard soils: It is not uncommon for recreation facility slab-on-grade tolerances to require the removal and replacement of subsurface soils unable to reach proper compaction, offer the engineer reasonable confidence that compaction will be consistent, or provide adequate resistance to overall loads. One element often overlooked in judging the adequacy of soils is the ability of the construction crew to use heavy crane equipment, without risk to the stability of a prepared subbase. Soils must be capable of resisting rutting and pumping while maintaining an optimum moisture content. All other elements being equal, the stability of the subbase to an adequate depth, and the consistency of the same over the whole area of the proposed slabs prevent the most common slab failure problems. Explain floor tolerance and moisture content requirements to the geo-technical engineer at the time of testing.

Potential actions to be taken to meet these criteria are, from least to most expensive:

1) straight compaction of existing soils, 2) amendment and "churning" of soils to a recommended depth followed by compaction of existing soils, 3) removal and replacement of defective soils to recommended depths. Project engineer should reserve a contingency budget amount to anticipate some replacement of deficient soils. If soils are deficient throughout the site, drilled piers may extend further into the ground than anticipated. It is recommended that a reserve of an additional 20% of the estimated cost of drilled piers, be held against the cost of correcting unexpected soils conditions. If not used, the amount can revert to a general building contingency.

Rocky conditions are another category of deficiency in that drilled piers must find stable stone to rest upon if piers are not designed to resist loads via the friction of the entire surface area of the pier. Stone layers of uncertain thickness must be removed. A unit price per cubic yard for stone removal should be set at the beginning of the project. Soils testing cannot pinpoint all areas of unacceptable stone that would impede drilled piers. Rock removal is therefore by nature an unknown quantity. The best the engineer can do is anticipate the potential expense based on soils testing report and size the contingency fund accordingly. For any project of large scale, "getting out of the ground" is the most potentially trying part of the process. Awareness of the problems involved in any project, will help reduce after the fact finger-pointing.

B. General Systems Criteria

HVAC: Outside mechanical heating and cooling is not recommended. Air movement should be controlled with use of a vestibule / airlock with two sets of entry doors.

Operating range:

- System able to maintain 68 to 76 degrees (F) year round at 50% relative humidity or less.
- 8-12 air changes per hour.
- Temperature controls: Independent to zone.

Mechanical System Noise Control: Noise from the building services should not interfere with the usage of the space. Noise criteria (NC) are a generally accepted, single number standard to determine what amount of sound can exist in a space and still allow full usage. The NC standards are subjective criteria but derived from multiple signal curves calculated along the entire audible range. The NC measure mechanical noise, and more specialized criteria for dampening specific sound frequencies require further engineering. NC standards simply establish how much sound can be contributed to a space before it becomes annoying and no longer falls within the accepted NC class for that usage.

To achieve the criteria at any level, follow these general guidelines: Provide mass in the walls around mechanical equipment spaces. Recommend concrete block masonry be used, whenever possible.

All ductwork shall sheet metal and be constructed for laminar airflow, in accordance with SMACNA guidelines. Minimum 2" thick insulation in all large ductwork, plenums, and fan casings. 1" minimum thickness elsewhere. Liner shall be an erosion resistant glass fiber duct lining. Minimum density should be 2.0 pcf.

Large ducts over 60" shall be subdivided into chambers with metal septums to avoid rumbling (oil canning) of the duct.

Flex duct is suitable for branch ductwork only. Flex duct leading to diffusers or grilles should be at least 5 feet in length and have one 90 degree bend before reaching the diffuser.

Select air handling units to minimize noise generation. Acoustically isolated enclosures and floor supports are common. (Even a lined fan housing can achieve significant reductions of 8 to 10 db in noise level over the system.) Manufacturers of sound isolated pre-engineered housings must provide guarantees that the internal isolation is free from short circuiting.

Avoid locating roof top units RTU's directly overhead or horizontally adjacent to noise sensitive spaces. Recommend locating RTU's only over support spaces such as storage rooms or rest rooms. When located on roofs, provide concrete curbs and sound isolating spring cushions. Roof structure shall be designed to resist static deflection below .025" under dead load and dynamic deflection under unit operation.

Avoid direct metal to metal contact between RTU and ducts by utilizing neoprene or canvas duct connectors.

Rotating variable speed drives must be designed to prohibit <u>sustained</u> rotating speeds of less than 400 rpm.

All pumps require flexible connections for all attached piping and conduit.

Airflow velocity shall be held to the criteria established for the particular NC standards. Refer to NC criteria set for each module. (Assumes 1" duct liner and ducted return) All values in feet per minute (FPM)

Lobby: NC 30 to 35 840 to 1020 Main Supply 460 to 540

Branch w/5' runout

Gyms: NC 30 to 35 1020 to 1200 540 to 640 Fitness: NC 30 to 35 1020 to 1200 540 to 640

Utilize low velocity and pressure air distribution system to prevent airflow noise at diffusers. Generally the closer the diffuser to the occupants, the greater the NC reduction *at the diffuser* below the ambient noise level expected for the usage. NC reductions of 8 NC (where diffusers are 12' or less away) to only 3 NC (where diffusers are 20' or more away) are recommended.

Initial duct system design shall plan for medium pressure drop silencers. Silencers shall be located about 3 duct diameters from fan housings.

Fan powered terminals or variable air volume (VAV) boxes shall not be located directly over noise sensitive spaces (NC 35 or less). Volume dampers shall not be located at the diffusers but back at the takeoff point of the branch duct. Recommend locating no closer than 10' from discharge point, with one 90 degree bend between dampers and diffusers.

Avoid using perforated face diffusers, double vane grilles and registers of any kind.

[Each value to be inserted under Acoustical Performance for their respective modules]

Lobbies; NC-30-35 Gymnasium: NC-30 to 35 Fitness: NC-30 to 35 Racquetball NC-40 Sauna NC-30

C. General Construction and Design Criteria

Data and design information for each module is abbreviated on the Finish Matrix (page 49). This matrix defines three levels of finish for each building module (Standard, Preferred and Minimum). An expanded narrative for each module follows the Finish Matrix.

FINISH MATRIX

Site	Standard	Preferred	Minimum
Hardscape (walkways, plazas,	Broom finish concrete w/	Concrete w/ accent	Broom finish concrete
patios)	designed control joint	pavers and designed	walkways with small
	pattern. Edging, curbs	control joint patterns.	concrete plaza at main
	and planter beds in	Accent paver edging.	entry.
	concrete.		-

Lobby	Standard	Preferred	Minimum
Ceilings	2 x 2 suspended	2 x 2 decorative,	2 x 2 suspended
	acoustical tile with	suspended acoustical	acoustical tile. Optional:
	gypsum board dropped	tiles (in various edge	Dropped gypsum board
	beams and soffits for	treatments and face	soffit over control desk,
	accent. Natural light via	designs) with decorative	and gypsum board false
	clerestory or skylights.	gypsum board ceilings	beams to set off lobby
		(vaults, cathedral	ceiling from adjacent
		ceilings, raised coffers, &	spaces.
		soffits) as accent	
		elements. Skylighting	
		and/or clerestory	
		windows for natural light	
Ceiling heights	10' with 9'-0" to lowest	Single open volume up	9'-0"
	element.	to two story height.	
Ceiling lighting	Fluorescent 2 x 2	Fluorescent 2 x 2	2 x 2 Recessed
	lighting, recessed with	lighting, recessed and	fluorescent area lighting.
	accent "can"	accent "can"	Uniform pattern with
	downlighting. Add	downlighting. Add	limited accent
	decorative surface	decorative surface	downlighting.
	mount accent lights.	mount and/or pendant	
		hung accent lights.	
		Option: Perimeter	
Linking Lands	N	lighting coves.	11.11 50.1 051
Lighting levels	Non-uniform, 50 fc max.	Non-uniform, 50 fc max	Uniform, 50 fc max. 35fc min.
Wall materials	8x16 or 8x8 scored	Ground face CMU as	8x16 or 8x8 plain face,
	ground face CMU with	primary finish with	painted CMU with 8x8
	complimentary ground	accent coursing in	scored CMU accents.
	face accent coursing or	ground face or split face	Natural light with alum.
	split face coursing.	CMU. Selective use of	or hollow metal windows.
	Natural lighting with	wood panel and/or fabric	
	alum. windows.	wrapped panels as	
		accents. Natural lighting	
		with alum. windows.	
Flooring	12x12 to 24x24	Terrazzo with accents	12x12 or larger Quarry
	Porcelain tile w/ accents	and/or floor patterns &	tile, sealed.
		emblems	, 200
Casework / counters	Custom grade (AWI)	Premium grade (AWI)	Custom grade (AWI)
	wood casework w/ solid	wood casework with	wood casework with
	surface counters	solid surface or stone	plastic laminate
		counters.	counters.

Gymnasium	Standard	Preferred	Minimum
Ceilings	Exposed structure.	Exposed structure.	Exposed structure.
	Acoustical mtl. decking,	Closed face acoustical	Standard metal decking,
	painted. Structure and	decking, painted.	painted. Option:
	mechanical ductwork in	Structure and	Structure and/or
	accent color(s)	mechanical ductwork in	mechanical elements in
		accent color(s)	accent colors.
Ceiling heights	25'-30' clear	25'-30' clear	25' clear
Ceiling lighting	Single zone, single level	Two zone, pendant	Single zone, single level
	pendant mtd. HID	mounted HID lighting.	pendant mounted HID
	lighting. Direct/Indirect.	Direct/indirect.	lighting. Contactor
	Contactor based	Contactor to fully	based, mechanically key
	electronic lighting	electronic controls with	switched.
	controls, single station in	data port access/ CPU	
	gym.	based programming.	_
Lighting levels	75fc min.	50fc and 100fc	75 fc
Wall materials	8 x 16 plain faced Epoxy	8x16 plain faced CMU	8x16 plain face epoxy
	painted CMU with scored		painted CMU Natural
	block accents. Natural		light with alum. windows.
	lighting via windows.	coursing and/or	
		wainscots. Accent	
Flooring: Courts (non-track)	Hardwood maple strip	colors. Hardwood maple strip	Poured in place urethane
Flooring. Courts (non-track)	flooring w/ plywood	flooring with plywood	or sheet adhered
	backing. No. 2 grade,	backing and impact	modified rubber.
	25/32" overall thickness.	absorption sleeper	modified rubber.
	Materials to meet or	system. No. 2 grade or	
	exceed DIN Standards.	better, 33/32" overall	
	exceed Birt Gtaridarder	thickness. Meet or	
		exceed DIN Standards	
Flooring: Running track	Poured in place urethane	Dual durometer -poured	Poured in place
	or sheet adhered	urethane or sheet	urethane.
	modified rubber . Do	adhered modified rubber.	
	not use recycled rubber	Do not use recycled	
	products which may	rubber products which	
	result in "off-gassing."	may result in "off-	
		gassing."	

Fitness	Standard	Preferred	Minimum
Ceilings	2x4 suspended	2x2 suspended	Exposed structure or 2x2
	acoustical tiles with 2x2	acoustical tiles	or 2x4 suspended
	accent areas and	(decorative edges and/or	_
	dropped gypsum board	colors) with gypsum	edge.
	soffits or exposed	board accent soffits,	
	accoustical structure with		
	appropriate acoustical	beams. An exposed	
	treatment.	ceiling with appropriate	
		acoustical treatment can	
		also be considered.	
Ceiling heights	10'-12'-0" to lowest fixed	12'-0"+ to lowest	Highest possible, no less
5 5	element	element (ceiling	than 9'-0" to lowest
		mounted TV/monitors)	element. (7'-0" to btm of
		,	ceiling mounted equip)
Ceiling lighting	Direct/indirect pendant	80/20 Indirect/direct	Parabolic lens direct
	hung lighting with accent	pendant hung lighting	fluorescent lighting with
	downlighting.	with decorative surface	accent downlighting.
		mtd. accents and accent downlighting	
Lighting levels	Non-uniform 50 fc min at		50 fc uniform with
gg .ee.e	floor with natural light	with natural light via	accents.
	supplement	skylights and windows.	
		. •	
Wall materials	8x8 epoxy painted CMU,	Ground face CMU as	Epoxy painted plain
	painted with ground face	primary finish with	faced 8x16 CMU with
	accent coursing / base.	accent coursing in	8x8 scored accents.
	Optional: Ground face	alternate colored	Natural light with alum.
	accents, or speckle paint finish. Full length mirror	aggregates. Split face CMU accents above	windows. Limited
	wall opposite weights	contact height. Selective	mirrored areas opposite weights stations.
	module.	use of gypsum board	weights stations.
	module.	walls outside of exercise	
		area. Natural lighting	
		with alum. windows.	
		Mirror walls opposite all	
		weights stations.	
Flooring (Cardio, Weights)	36x36 x 3/8" granulized	36x36 x 7/8" granulized	36x36 x 3/8" granulized
	EPDM, wall to wall.	EPDM tiles fully adhered	EPDM tiles. Limited to
	Accents and borders or	with and/or color	equipment areas only,
	checkerboard pattern at	coordinated modified	Fully adhered or loose
	equipment groupings.	urethane-rubber sheet	laid interlocked tiles over
	Do not use recycled rubber products because	flooring. Use accents of	concrete substrate.
	they are unsanitary and	tile, tile borders around sheet insets at	
	may cause "off-gassing."	equipment groupings.	
	may badse on gassing.	Do not use recycled	
		rubber products because	
		they are unsanitary and	
		may cause "off-gassing."	
		,	
		l .	

Exercise (Non structured)	Standard	Preferred	Minimum
Ceilings	2x4 suspended acoustical tiles with 2x2 accent areas and dropped gypsum board soffits.	2x2 suspended acoustical tiles (decorative edges and/or colors) with gypsum board accent soffits, headers and false beams.	Exposed structure or 2x2 or 2x4 suspended acoustical tile, tegular edge.
Ceiling heights	10'-0" to lowest fixed element	12'-0" to lowest element	than 9'-0" to lowest element.
Ceiling lighting	Same as Fitness Module	Same as Fitness module	Same as Fitness module
Wall materials	Same as Fitness Module with floor to ceiling mirrors along "front" wall. Interior only windows to other exercise modules/ circulation areas. Option: Mirrored side walls.	Same as Fitness module with floor to ceiling mirrors front and side walls. Provide interior windows to other exercise modules.	Same as Fitness module. Optional: interior windows to other exercise modules / circulation areas.
Flooring (Aerobics)	Hardwood maple strip flooring w/ plywood backing and 7/8" sleepers on EPDM cushion pads. No. 3 grade or better. 33/32" overall thickness.	DIN certified Hardwood maple strip flooring with plywood backing and 68% shock absorption EPDM sleeper system. No. 2 grade or better. 33/32" overall thickness.	Modified urethane- rubber poured or fully adhered tile system with shock absorption. 10mm top layer over min. 15mm cushion layer.

Structured Activity	Standard	Preferred	Minimum
Racquetball / Squash Court	Specialized	Specialize prefabricated	Specialized
	prefabricated system	system components not	prefabricated system,
	components. Sound	less than sound	Resin core wall panel
	absorbing resin core	absorbing resin core	system, min. Synthetic
	panels, maple wood floor	panels with DIN rated	panel or maple wood
	with sleeper system, and		floor system. Glass back
	solid core back wall and	flooring, glass back wall	wall.
	ceiling with protected	and panel ceiling with	
	lighting.	recessed lighting.	
Climbing wall	No minimum system	See full system	CMU walls with hand
	standards applicable for	description.	holds and portable mats.
	safe operation. Full		
	system required for any		
	level of activity in this		
	module. See full system		
	description, Section IV.		

Ceilings 2x2 high humidity rated suspended acoustical tiles with decorative edge treatment and/or face colors. Gypsum board dropped soffits and headers. (decorative edges and/or colors) with gypsum board accent soffits, headers and false beams. High density (high humidity rated) non ceramic face designs preferred. or prefabricated metal top closure. Ceiling heights 9'-0" 9'-0" 8'-0" Ceiling lighting 2x2 suspended acoustical tiles (decorative edges and/or colors) with gypsum board accent soffits, headers and false beams. High density (high humidity rated) non ceramic face designs preferred. top closure. Ceiling lighting 9'-0" 9'-0" 8'-0" 2x2 fluorescent recessed, grid mounted 2x2 fluorescent recessed, grid mounted yeacing to achieve light
tiles with decorative edge treatment and/or face colors. Gypsum board dropped soffits and headers. Ceiling heights tiles with decorative edge treatment and/or face colors) with gypsum board accent soffits, headers and false beams. High density (high humidity rated) non ceramic face designs preferred. Ceiling lighting (decorative edges and/or colors) with gypsum board soffits over locke or prefabricated metal top closure. To provide treatment and/or face colors) with gypsum board soffits over locke or prefabricated metal top closure. Self-O" 2x2 or 2x4 fluorescent 2x2 fluorescent Vertical Toronto Colors) with gypsum board accent soffits, or prefabricated metal top closure. Self-O" 2x2 fluorescent Vertical Toronto Colors) with gypsum board soffits over locke or prefabricated metal top closure. Self-O" 2x2 fluorescent Vertical Toronto Colors) with gypsum board accent soffits, or prefabricated metal top closure. Self-O" 2x2 fluorescent Vertical Toronto Colors) with gypsum board accent soffits, or prefabricated metal top closure.
treatment and/or face colors. Gypsum board dropped soffits and headers. Ceiling heights treatment and/or face colors) with gypsum board soffits over locked or prefabricated metal top closure. headers and false beams. High density (high humidity rated) non ceramic face designs preferred. Ceiling heights 9'-0" 9'-0" 2x2 or 2x4 fluorescent youngers board soffits over locked or prefabricated metal top closure. Top Colors) with gypsum board accent soffits, headers and false top closure. Top Colors) with gypsum board soffits over locked or prefabricated metal top closure. Top Colors or prefabricated metal top closure.
colors. Gypsum board dropped soffits and headers. board accent soffits, headers and false beams. High density (high humidity rated) non ceramic face designs preferred. Ceiling heights 9'-0" 9'-0" 2x2 or 2x4 fluorescent board accent soffits, headers and false beams. High density (high humidity rated) non ceramic face designs preferred. 2x2 fluorescent Use standard. Maximulations and preferred beams. High density (high humidity rated) non ceramic face designs preferred.
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headers. beams. High density (high humidity rated) non ceramic face designs preferred. Ceiling heights 9'-0" 9'-0" 8'-0" Ceiling lighting 2x2 or 2x4 fluorescent 2x2 fluorescent Use standard. Maximum
(high humidity rated) non ceramic face designs preferred. Ceiling heights 9'-0" 9'-0" 8'-0" Ceiling lighting 2x2 or 2x4 fluorescent 2x2 fluorescent Use standard. Maxima
Ceiling heights 9'-0" 9'-0" 8'-0" Ceiling lighting 2x2 or 2x4 fluorescent 2x2 fluorescent Use standard. Maximum
Ceiling heights 9'-0" 9'-0" 8'-0" Ceiling lighting 2x2 or 2x4 fluorescent 2x2 fluorescent Use standard. Maximum
Ceiling heights 9'-0" 9'-0" 8'-0" Ceiling lighting 2x2 or 2x4 fluorescent 2x2 fluorescent Use standard. Maximum
Ceiling lighting 2x2 or 2x4 fluorescent 2x2 fluorescent Use standard. Maximu
recessed, grid mounted recessed, grid mounted spacing to achieve lig
lighting. Prismatic lighting. Prismatic levels.
lenses. Spacing as
required to evenly light
all functions.
Lighting levels Uniform 50 fc with care Uniform 50fc min. with Uniform 50fc, minimiz
to provide light at faces care to provide light at shadowing at face or
of lockers faces of lockers lockers.
Wall materials Locker backup walls may Plain faced 8x8 or 8x16 Epoxy painted gypsur
be gypsum board over CMU epoxy painted. board, two layers over
metal studs. Fully metal studs at 16" o.c
exposed walls: plain
faced 8x8 or 8x16 CMU,
epoxy painted Flooring Solution dyed nylon 2 x 2 ceramic tile and Use standard.
Flooring Solution dyed nylon 2 x 2 ceramic tile and carpet with microbial base with decorative
treatment. 45 oz. pattern and/or solution
finished weight min. dyed nylon carpet with
Resilient vinyl transitions. microbial treatment, 60
oz finished weight.
Provide decorative
borders and insets.
Marble transitions.
Casework / counters Solid surface counters Solid surface or solid Use standard.
over cantilevered stone counters with
counter assemblies. matching fronts, skirts
Solid surface fronts, and backsplash.
skirts, and backsplash Decorative edge
Rimless sinks. treatments. Under
counter sinks.

TOILET/ SHOWER ROOMS	Standard	Preferred	Minimum
Ceilings	Plaster	Plaster	Suspended gypsum
			board. Plaster directly
			over shower areas.
Ceiling heights	9'-0"	9'-0"	8'-0"
Ceiling lighting	Fluorescent lighting	Use standard, plus	Flush recessed 2x2 or
	coves or recessed soffits	specific placement of	2x4 fluorescent lighting
	over toilets, showers and	recessed downlights for	with prismatic lenses.
	counters. Option:	accent.	
	Supplement with		
	recessed downlighting		
Lighting levels	50fc	50fc	50fc
Wall materials	Full height ceramic tile	Full height 2x2 or 4x4	Full height ceramic tile at
Trail materials	wet walls and ceramic	ceramic tile with borders	
	tile wainscots at fixture	and/ or patterns	board on metal studs
	areas. Gypsum board	and, or patterns	elsewhere, epoxy
	on metal studs above 42-		painted.
	48", epoxy painted		paoa.
Flooring	2 x 2 ceramic tile.	2 x 2 ceramic tiles with	2 x 2 ceramic tile single
_	Provide single field color	custom borders and/or	field color. Mud set
	with accent border or	patterns. Mud set.	showers only, thin set
	pattern. Mud set.	·	elsewhere.
Equipment	Individual phenolic resin	Full tiled individual	Individual phenolic
	shower compartment,	shower compartments,	shower compartments,
	private drying stall.	private drying. Shower	group drying area.
	Phenolic or enameled	and drying seats.	Phenolic toilet
	steel toilet	Enameled steel toilet	compartments, standard
	compartments, standard	compartments, custom	colors.
	colors.	color(s).	

SAUNA	Standard	Preferred	Minimum
Ceilings	Plaster	Redwood T&G slats, All heart grade redwood.	Plaster
Ceiling heights	8'-0"	8'-0" min. with 7'-0" clear at upper tier.	8'-0"
Ceiling lighting	Centrally placed linear recessed fluorescent, prismatic lens.	Custom recessed downlighting	Use standard.
Lighting levels	35fc	35fc	35fc
Wall materials	CMU substrate with T&G redwood panels. Two wood bench tiers	CMU substrate with T&G redwood slats. Two wood bench tiers.	Use standard.
Flooring	Redwood slat floor with concealed drain.	Use standard. All heart grade redwood.	Removable wood tile "mats" over sealed concrete.

MODULE	Lobby		
Overall Fitness Program Area	X-Small Lobby area is included within the Small Miscellaneous Area for each PFF size. Large Large		
Function / Description	Transitional space for visitors and users to check-in upon entry and orient themselves to various activities. A control area within the lobby facilitates security procedures and the issue and collection of equipment such as basketballs and volleyballs.		
Essential Design Requirement:	 Control Area Requirements: 1) Staff MUST have direct visual and physical access to free weight area. 2) Staff must have visual access or total coverage video-surveillance of cardiovascular area, circuit area, gymnasium and exercise areas. 3) Staff must have visual access or video-surveillance of the entrances to the locker room and the general area of the racquetball courts. 		
Direct Adjacencies	Entry Vestibule and vertical circulation to upper level areas. The preferred adjacency for the lobby is as a link between the gymnasium and the rest of the facility so that the gym can function independently during off hours when the remainder of the building is shut down. Orientation of		
Indirect Adjacencies ——	Corridor system to activity areas. Restrooms.		
Ceiling Height	10'-0" and above preferred with 9'-0" min. to lowest ceiling element. The intent for lobby ceiling design is to encourage interest and traffic into the facility. Bright, open volumes with views into the facility provide that impression. Though higher ceilings will require an increase in heat / cooling input, it is recommended that the facility utilize the largest volume possible within the space criteria guidelines. Skylights: Lobby appeal is enhanced by a combination of natural and artificial light. Centrally located skylight for hub type lobby, or several smaller skylights for linear spaces is highly recommended. Attempt to position skylight to accent control area.		

Aluminum powder coated or Kynar painted, self-supporting, precut, field constructed units. Glaze with 3/4" to 1" thick insulated, laminated glass with no less than 53 -58% light transmittance (typical of clear glazing in an insulated configuration) with low emissivity (Low -E) coating on side 3 of

the glazing assembly.

MATERIALS & FINISHES

Ceiling Finishes

Lobby

Highly reflective and sound absorbent materials. Provide 2' x 2' or 2' x 4' lay-in, wet formed mineral fiber acoustical panels, on standard "T" shaped pre-finished metallic grid system. 15/16" or 9/16" wide "T" grids are base selection criteria. See optional considerations below.

Face design: Consider options for face design that introduce a distinctive element to the lobby space. Often a significant impact can be achieved by reserving the use of 2' x 2' tiles to the lobby area. Non-directional face designs are still preferred. Non directional tile decorative options are: 1) various face colors, 2) decorative textures, and 3) dense composition tiles pre-formed with patterns to create custom ceiling effects. Note that patterned tiles have a higher initial cost and replacement cost. Engineer must weigh desired effect with overall cost-effectiveness.

Edge design: "Flush" (square edges) or "tegular" (routed edges). Several routed edge designs are available.

Impact Resistance: Standard durability rating.

Sound absorption for acoustical panels: No less than .55NRC

Surface light reflectance: No less than .80.

Consider lighting placement and lamping types while considering ceiling design. The lobby is the primary area to consider decorative fixtures which may require areas of the ceiling reserved for pendant hung fixtures and/or up-lighting of ceiling features. See lighting guidelines below.

Humidity: No special protections.

Fire resistance: Only Class A materials as determined by recognized testing laboratories such as Underwriters Laboratories (UL). Provide fire resistive ceiling system where floor-ceiling assembly contributes to the fire protection of roof or habitable space above the module.

Seismic requirements: Provide sway bracing for ceiling grids installed in seismic zones where local building officials would normally require such protections.

Overstock: Provide 2% for future replacement.

Accent functional areas, "mirror" floor patterns, or improve aesthetics by the addition of single layer, gypsum board "dropped" soffits or bulkheads on metal studs. Use of dropped soffits allows concealment of lower items (i.e. ceiling fans, structure, or utilities) while allowing the majority of ceiling to be increased in height. Install around perimeters of rooms, or across ceilings in an arrangement of "false beams." Area of solid, sound reflective surfaces should not exceed 15% of the total ceiling area.

"Modular" soffit arrangement: Where possible, design and size soffits and bulkheads to allow the use of full acoustical panels in each direction. For non-modular areas, center ceilings by using balanced border widths where panels are cut to fit.

MATERIALS & FINISHES

Ceiling Finishes (continued)

Wall Materials

Wall Finishes

Lobby

Coordinate lighting: With direct lighting (recessed in ceiling) locate bulkheads and acoustical panel arrangements with the optimum lighting locations first, then consider the pattern of the panels and placement of bulkheads. Consider pendant hung decorative lighting. Where soffits exceed 36" in width and/or 12" in depth, consider supplemental lighting in the bottom of the soffit to avoid shadowed areas across the ceiling plane or at upper portions of wall planes.

Concrete masonry units (CMU). Moisture controlled Type 1, ground face (also called "burnished-face"), hollow core units are recommended. Standard face block can also be used with various paint finishes. Use a balance of gypsum board / metal stud walls as accents to functions or features. Generally, wall finishes in circulation areas should weight durability criteria more heavily than at seating or control desk areas.

Size and Face design: Plain 8 (high) x 16 (wide) x 8 (deep) units or "scored" with a vertical 3/8" false joint to appear as an 8 x 8 x 8 unit when placed in running or stack bond.

Compressive strength: 1900 psi minimum.

Bond: Running bond for load or non-load bearing partitions. Stack bond for non-load bearing and/or decorative walls only. Fully tooled joints.

Face finish: Ground (machine polished) face is preferred when masonry is used.

Special shapes: Use bullnose corner units at all outside corners.

The ground-face concrete block will be have fully tooled joints but remain otherwise unfinished. Several aggregates are available that will affect face color and pattern. It is recommended that selections be made from physical samples of full size units.

Circulation areas: Sealed burnished face blocks or water based epoxy paint finish where standard face block is used. When painted finishes are selected, consider less reflective sheen in paint finishes, eggshell to semi-gloss, to improve perceived "warmth" of the space. Standard block finish may also be an applied heavy mil, "speckle" paint system that provides durability with a variety of color/pattern options.

Seating / socializing areas: Epoxy paint or vinyl wallcovering over gypsum board on metal studs.

Ferrous metals: (window and door frames) Water based epoxy.

Aluminum finishes: (Entrances and windows) Natural clear coated finishes or powder coat paint systems are preferred for consistency of appearance and maintenance. Anodized finishes are not recommended, especially if considering using aluminum frames on the interior. See guidelines for Windows and Doors.

Hardware finishes: Satin finish stainless steel or satin chrome preferred.

MATERIALS & FINISHES

Flooring

Lobby

Selection criteria are based on appearance, durability, and yearly maintenance. Recommendations include terrazzo, porcelain tile, ceramic tile, and resilient tile. Each material has certain advantages / disadvantages.

Terrazzo: Highest initial cost, lowest average yearly maintenance cost, high durability, longest effective life. High impact resistance and traffic abrasion resistance. High resistance to normal staining and good chemical resistance. Finish is monolithic with increasing initial cost if supplemental colors are added for borders or inserts. Requires mechanical equipment to clean and polish. Preferred finish.

3/8" thick, NTMA (National Terrazzo Manufacturers Association) thin-set installation. Terrazzo matching pre-molded baseboard. Solid bronze or bright brass inset strips for control joints and defining floor inserts or accent areas.

Critical item: Terrazzo control joint placement is important to 1) ensure sufficient joints are provided to control cracking, and 2) for joints to occur where they would be most visually pleasing. Following NTMA control joint guidelines without reviewing overall joint patterns is not recommended.

Porcelain tile: Depending on manufacturer, slightly less than or equal in cost to terrazzo in material costs only. Lower initial installation cost, but potentially higher yearly maintenance. Lower impact resistance than terrazzo but equal abrasion resistance. Second to terrazzo in long term effective life. Grouted lines more difficult to keep clean. Larger variety of colors and finishes available. Patterns and borders do not necessarily add to cost. Matte finishes or raised textures necessary for slip resistance. Porcelain can be cleaned manually with periodic strip and clean necessary. Matching base board available. Recommended finish.

5/8" thick over full mortar bed recommended minimum. 12 x 12 or 24 x 24" most common sizes, but a variety of symmetrical and asymmetrical (rectangular) shaped tiles is available. Do not recommend a thin set application for a main lobby. Coordinate transitions to other spaces.

Ceramic tile: Lower cost than porcelain, equal cost for installation. Lower impact resistance with close to equal abrasion resistance to porcelain tile. Good chemical and stain resistance. Fewer options in tile sizes. Matching base board units available. Good color and patterns available. Not recommended as the major field tile for lobbies, but can be used as accent strips or inserts.

No larger than 4" x 4" tiles recommended for accent strips or inserts.

MATERIALS & FINISHES

Flooring (continued)

Lobby

Resilient tile: Lowest initial material and installation cost. Lowest durability. Moderate impact resistance and low abrasion resistance compared to harder materials. Yearly maintenance costs comparable to terrazzo if maintained properly. Good resistance to most stains, limited chemical resistance. Easier to replace than repair. Large variety of colors, with patterns tending to be similar. Solid color tiles available, but at the cost of higher annual maintenance. Good variety of baseboard and floor to floor transition accessories. Minimum acceptable finish. 12" x 12" Solid composition tiles in 1/8" thickness, typical. Recommend rubber base over vinyl base for durability.

Carpet: Not recommended due to high frequency traffic and direct adjacency to the outside. Difficult to maintain correctly on a daily basis. If used, can be provided in lower traffic periphery areas where seating is present. Use primarily to 1) set off an quiet activity area, 2) soften an otherwise hard finished space, or 3) to improve sound absorption overall and especially in conversation / seating areas.

Minimum: Commercial grade carpet with 26 oz yarn weight, 45-60 oz total finished weight. Polypropylene backing, 1/10 minimum gauge with .166" to .1875 min. pile height. 10 year warranty.

Modular Floor mats: Recommend each entry have a recessed mat, constructed of pre-finished metal retaining strips with nylon fiber, or shredded rubber inserts. Semi-open design. The entry mat can be constructed with or without an edge frame, but it is recommended the mat be recessed into the floor for best effectiveness. Typical depth of recess is 5/8," but must be confirmed with the selected manufacturer. Floor mat recesses should span the width of the entry opening and be 4'-6' long in the direction of travel. Mats are intended to be removable to facilitate periodic cleaning of the mat and the floor recess. Floor drains under the mats are optional but recommended for heavy rainfall or snowfall locations. Typical recess depth is 3/4".

Substrates: Concrete on grade or properly prepared wood floor sheathing. Recommend that 8mil reinforced or 10 mil un-reinforced polyethylene vapor barrier be applied under all slabs. Slabs to receive porcelain tile or terrazzo finishes should not be hard troweled. "Open" surface with light texture is best for adherence of mortars and epoxies. See critical guidelines for sports flooring in Fitness and Gymnasium modules.

Coordinate floor elevations with adjacent sports floors and carpeted spaces. Terrazzo and tiles can be surface applied materials if transitions to other flooring are coordinated. Follow ADA guidelines for acceptable heights of all transitions. Coordinate entry mat floor recesses in concrete.

Floor tolerances: No more than a single ½" defect in 10'-0" in every direction, non-averaged for full area of floor. Follow floor materials suppliers' direction for compatible substrate preparation and concrete priming materials.

SYSTEMS

Plumbing

Mechanical (HVAC)

Lighting

Light Level

Lobby

A drinking fountain may be required for this module. When required, provide one, electrically cooled, two station unit, designed for ADA use. 1 drinking fountain per lobby when linked to public restroom function. Drinking fountains to meet minimum count for peak occupancy should have one out of all required fountains in or directly adjacent to lobby.

Outside mechanical heating and cooling is not recommended. Air movement should be controlled with use of a vestibule / airlock with two sets of entry doors.

Operating range: System able to maintain 68 to 76 degrees (F) year round at 50% relative humidity or less.

20 CFM/person.

8 -12 air changes per hour.

Temperature controls: Independent to zone.

Main module lighting to be a combination of 1) recessed fluorescent down lighting (PL lamps) with pendant hung decorative lighting or 2) pendant hung direct / indirect fluorescent fixtures. Decorative wall sconces are recommended to accent functions or highlight focal points.

Provide lobby lighting control center at control desk. Dimming function is not necessary but may be considered as an option.

Provide down lighting directly over all control desk counters.

Provide display lighting within casework for merchandising or issue functions at Control desk

Provide under cabinet lighting of counters where wall cabinets are used. Linear low profile fluorescent or "puck" style metal halide is acceptable. Metal halide system requires concealed low voltage power supply.

40 to 50 foot candles in main circulation spaces.

30 foot-candles in seating / waiting areas, minimum.

50 foot candles at desk height for Control area. Dimming capability optional.

SYSTEMS

Power

Technology / AV

Sound

Communications

Acoustical Performance

Lobby

220/240 single phase for less expensive room lighting and vestibule supplemental heating units. 110v circuit for accent room lighting. Convenience 110v outlets every accessible at 10'-0" intervals along outside walls, and at column covers within larger spaces located more than 10'-0" from the nearest wall outlet.

110v power to circuits as needed to Control Desk, for computer terminals 2 minimum, counter mounted video monitors, multiplex video receiver, tape backup, sound processor for multiple paging sources, music source (CD player) and sound amplifier. Utilize custom raceway in casework. See Architectural Woodworking guidelines above.

Power requirements in this Technical Criteria manual are for CONUS installations. OCONUS power requirements should be addressed on a location by location basis.

Main power and communications needs are at the Control Desk.

CAT5e minimum data wiring to computer terminals, 2 stations minimum.

Empty conduit routing, (recommend 2" min. diameter) for present or future video cabling from security camera sources around facility. Stub up into base cabinets and continue up into ceiling cavity above control desk.

PA system to be controlled from the Control area. PA system and intercom system hard-wired throughout the building and controllable by room. The system should be capable of announcing throughout the facility at one time, or by select rooms. System should also be capable of playing music in designated activity areas.

SYSTEMS

Windows & Doors

Lobby

Window and Door requirements shall meet the Force Protection / Anti Terrorism requirements.

Aluminum framing preferred, with hollow metal frames acceptable.

Provide aluminum entrance frames with an insulated aluminum door (i.e. as if for exterior use) with an insulated glass insert for all exterior frames. Option exists to continue use of aluminum framing and aluminum / glass doors within the lobby for openings visible from within the lobby area. Aluminum finishes may then match in color / sheen and durability.

Utilizing aluminum window system framing to create large open views into adjacent activity spaces and /or to the exterior is highly recommended. Window shading devices may become necessary for tall glass with south to southwest exposures. Consider afternoon sun angles and control desk locations to avoid glare conflicting with the control desk monitoring functions.

Tempered glass is typical to the module.

Door hardware: Satin stainless steel or satin finish chrome preferred. High frequency ball bearing butt hinges are an acceptable minimum. Continuous gear-operated hinges preferred. Concealed or surface applied pivot hinges are not recommended. Continuous hinges will require custom color coordination with the door frames.

ADA (American's with Disabilities Act) provisions:

All accessible features designed for public use shall offer a clear approach of no less than 36" x 36", and be mounted at a height of no greater than 54" and no less than 48."

Provide level transitions between adjacent floor and sauna. Provide one clear floor space of 48" x 48" directly in front of a bench for wheelchair accessible seating. Solid acrylic grab bars at handicap seating area are optional.

Priority shall be placed on effective use of equipment by disabled patrons and not based solely on minimum access guidelines published by the ADA.

EQUIPMENT

Fixed Equipment

Lobby

Architectural Woodwork:

Control: Provide a visually attractive focal point for 1) entering patrons, 2) control and security functions, and 3) information. Current guidelines suggest one large control area contiguous with both the Lobby and Fitness modules. Expect to provide counters and casework for a minimum of two stations /control personnel within a desk area or two adjacent stations back to back within easy communication of one another.

Materials: Recommend all wood construction for flexibility in configuration. Provide stone or solid surface counters for durability. Make provision for lower counter for ADA access. Provide two tier counter system, more to block view of countertop clutter and controls, than as a privacy barrier. Direct visual control of lobby and fitness areas is critical. "Back wall" (if available) counters may be standard seating height for more extended paperwork functions.

Casework: Premium grade. Solid wood fronts, veneer plywood exposed sides and knee spaces. Interior dividers may be fused and bonded vinyl or plastic laminate particle board. Recommend only 3/8" thick min. plywood for shelving 3'-0" wide and under (1/2" thick otherwise), with wood veneer or fused and bonded vinyl finish. Solid wood face edging for shelving and door edges recommended. PVC edging is an alternative.

Counters: Solid ½" to ¾" thick polymer resin counters. Provide 1½" dia. half round edges. Avoid square edges toward patrons. Plastic laminate counters not recommended. Drawer and door hardware: to be commercial grade. Drawer glides to use ball bearing, nylon wheels, rated for 50lbs minimum at full extension. Storage drawers to use 150lb glides. Use concealed door hinges and any metal cabinet pull style. Plastic or nylon pulls are not recommended. Provide through the counter grommets for covering holes needed for computer and device wiring from counter mounted devices.

Flooring: Match lobby or fitness floor. Durable, low maintenance.

SYSTEMS

Fixed Equipment (continued)

Lobby

Configuration: Control casework must accommodate the following functions:

Greeting / information: Standing counter height. Drawer and cabinet for ID check, issue ID. Provide one seated counter height for ADA check-in. Paging device for facility should be located here or with control functions. Provide width for discussion and computer workstation. Direct adjacency with equipment issue and control functions.

Equipment and Laundry Issue: Seated counter height with above and below counter storage units for balls. Storage cabinet and access to laundry pickup and drop-off area for towels. Separate computer station or combine function with greeting station for small to medium sized facilities.

Control counter: Seated or standing counter height with video monitoring and tape storage. If desired, lighting controls and sound controls can be routed to this area of the counter. Should be within in line of sight of lobby and / or fitness spaces intended to be under its control. Lighting controls may be split to remain in line of sight with space served. Sound controls may be centralized.

Sound equipment for music and speech reproduction should be located at or near the control area. Provide glass front, lockable cabinet with adequate ventilation and accessible to utility raceway. See Electrical and Communications guidelines.

Optionally, the control area can provide storage and display cases for vending or recreation merchandise. Glass front, lighted base cabinet units may be faced toward patrons with access from the control counter side. Provide locking hardware.

Utilities: Provide open 4" to 6" deep chase at the back of every base cabinet, run full length of the counters to act as a raceway for power and data communications. Backs of selected base cabinets shall be removable for wiring access. Knee spaces shall have false back panels joined to raceways. Hinged access panels may also be provided for the same function.

MODULE	Gymnasium / Suspended Running Track	
Overall Program Area	X-Small 10,200 SF One-Court Gym (50 x 94 court) Small 17,400 SF Two-Court Gym (50 x 94 courts) Medium 24,600SF Three-Court Gym (50 x 94 courts) Large 31,800 SF Four-Court Gym (50 x 94 courts)	
Running Track	X-Small 1,500 SF Small 2,100 SF Medium 2,650 SF Large 3,180 SF	
	The running track area is scoped at 50% of the building area due to the mezzanine construction. This has no affect on the space allocated for circulation.	
Function / Description	Dedicated space for team activities and competitive play including basketball, volleyball and possible tennis. Multiple court gymnasiums with divider curtains will accommodate simultaneous activities. A suspended running track with three lanes will accommodate walking or jogging activities.	
Direct Adjacencies	This component should be located adjacent to the Entry / Lobby and function as a freestanding element that can be accessed during off hours while the rest of the facility is closed off. Restroom facilities should be provided within the gymnasium building envelope for independent function. Team Locker Rooms can be provided adjacent to the Gymnasium for game use during off-hours, but the area for these elements should be deducted from storage and public restrooms. Adjacency to the Control Desk is required for check-in and equipment issue.	
Indirect Adjacencies —	Activity Components Locker Rooms Control Desk	
Ceiling Height	Ceiling Heights: 30'-0" minimum Minimum unobstructed height is 30'-0".	

MATERIALS & FINISHES

Ceiling Finishes

Gymnasium / Suspended Running Track

General provisions: Exposed structural and mechanical systems are typical to gymnasiums.

Structural Considerations: Roof trusses are typically designed to minimum load values for the spans involved resulting in the most economical truss (by weight) that can be provided. Gymnasiums have additional truss mounted loads that must be taken into account.

- Suspension of basketball backstops
- Divider Curtains and drapes for temporary backdrops
- Ductwork
- Lighting, Temporary Theater Lighting and Sound Equipment
- Company or squad decorative banners
- Suspended jogging track

The Engineer also has the responsibility of reviewing the pattern of the truss webs to coordinate passage of HVAC ductwork and installation of the correct lighting pattern. This should be done in consultation with the structural engineer at the earliest possible date.

Note: Multi-court gymnasiums with perimeter, on grade, running tracks will typically have a span of 150 to 170'. Courts with suspended tracks typically have spans of 120- 130.'

Acoustical Decking:

Provide a flat panel, or exposed cell perforated metal deck with cell depth as required. Minimum sound absorption factor shall be .47, with a NRC of 1.00. Absorption values of .68 to .83 are easily reached for long span acoustical decks. Obtain highest level possible in new construction. Design sound quality should be "lively" with no reverberation.

Critical item: Unless retrofit of an existing space makes their use unavoidable, applied acoustical treatments are not recommended.

Ceiling Finish: "Dry-fall" or "wet-fall" paint system for decking and trusses. Deck painted in white or off white preferred for maximum lighting distribution. Contrasting color of trusses and ductwork offer an opportunity for accent colors.

MATERIALS & FINISHES

Wall Design Considerations

Gymnasium / Suspended Running Track

It is recommended that natural light be allowed into gymnasium spaces through the use of windows and / or overhead skylights. Wall construction will control the ease and relative cost of creating such openings. Recommended wall construction for gymnasiums is an interior wythe of 8" thick to 12" thick concrete block, with 2" of rigid insulation in the wall cavity and a veneer system suitable to the context of surrounding buildings. The two principle structural systems for tall multi-wythe masonry walls are 1) load bearing masonry, or 2) steel frame with non-load bearing in-fill partitions.

Load bearing masonry is generally more expensive than a steel frame system due to the need for additional reinforcing, deeper block sections, and walls designed to resist overall deflection of the building envelope. Openings through load bearing masonry can be accomplished but on a more limited basis. Structural performance of the wall will require opening placement to be carefully coordinated with the structural engineer. Advantages of all masonry construction are primarily in the speed with which the exterior envelope can be constructed. Limited availability of structural steel may also argue for load bearing masonry construction.

Steel frames for tall open structures are preferred for the possibilities offered in window placement and for the relative overall cost of the system. The structural frame supports the majority of the vertical loading from the roof. This allows the masonry wall to be designed to support only its own weight. This allows larger openings to be created through the wall system. One disadvantage is that open steel frames will require the use of cross bracing in selected bays to resist the same shear and wind loads assumed by a load bearing masonry frame. The cross braced bays will generally be visible but can be arranged to perform as a design element within the space. Where structural steel is readily available, the cost savings and the option of providing natural light and views into and out of the space recommend steel frame construction

Steel frame buildings must be fireproofed either by application of spray applied fire resistive materials or full enclosure with masonry veneer. Expect to fully wrap floor to roof columns with concrete masonry. Roof structure above 20' may remain unprotected and exposed cross bracing, when provided solely to resist wind deflection in the structural frame, may be left unprotected. Determine cross bracing locations as early as possible.

MATERIALS & FINISHES

Wall Materials

Gymnasium / Suspended Running Track

Concrete masonry units (CMU). Moisture controlled Type 1, normal weight, hollow core.

Size and Face design: Plain 8 (high) x 16 (wide) x 8 (deep) units or "scored" with a vertical 3/8" false joint to appear as an 8 x 8 x 8 unit when placed in running or stack bond.

Compressive strength: 1900 psi minimum.

Bond: Running bond for load or non-load bearing partitions. Stack bond to be used with non-load bearing partitions only.

Face finish: Manufacturer's standard finish for painted blocks. Ground or burnished faces where painted finish is not desired.

Horizontal accent bands of different colors of burnished block to add visual interest as base courses, "crown" molds, and as wainscots, may be used.

Special shapes: Use bullnose corner units at all outside corners.

Safety: Minimum safety requirements provide for wall-mounted padding, meeting all applicable safety requirements, to be permanently affixed to the walls behind each backboard.

Wall Finishes

Standard block with water based epoxy coating, semi-gloss.

Apply a heavy acrylic block filler spray applied and backrolled to a pinhole free surface, and two epoxy finish coats of 5 to 6 mil Dry Film Thickness (DFT).

Ferrous metals (doors and frames): water based epoxy.

Apply one coat primer compatible with finish coat, and as barrier coat to factory primer.

Two finish coats of 5 to 6 mils. DFT.

MATERIALS & FINISHES

Flooring

Gymnasium / Suspended Running Track

BALLCOURTS:

Substrates: Where possible, provide a min. 4" thick, level concrete slab on grade over properly graded crushed stone sub-base, with a 10 mil polyethylene sheet vapor barrier located directly between the slab and the subbase. Where continuous water is anticipated beneath floors due to local conditions, a subsurface drainage system is recommended.

Ballcourt floors: Machine milled and formed solid maple strip flooring that meets or exceeds MFMA (Maple Flooring Manufacturers Association) specification for a "second or better" grade. Expect some visual variation in color in the wood, but otherwise free from defects. Flooring materials to meet DIN Standards.

Size and construction: 33/32" thick x 2 ½" width minimum. Provide a floating system with two bonded bi directional plywood backing layers, supported on solid neoprene cushion pads (3/4" high) for an overall performance of 96% or better ball return with 86% or better shock absorption. Floor will be rigid but with minor "give" during normal play.

Flooring accessories:

Holes for volleyball and /or indoor tennis netting support posts may be drilled through the wood floor. Inserts are cast in place with the formation of the slab on grade, or post drilled. Coverplates are used to conceal holes through wood floors when netting equipment is not in use. Recommend only solid brass floor covers to provide good ball return value and skid resistance.

Court overruns: Provide at least 10'-0" of unobstructed space around the perimeter of each regulation-size basketball court. Provide 8'-0" minimum between courts.

RUNNING TRACK:

Track is suspended from the roof system a minimum of $14^{\circ}-0^{\circ}$ above the finished gym floor to the underside of track structure. Three 3'-0" lane widths minimum to balance user capacity versus initial cost. Locate track around the perimeter of the gymnasium module's exterior walls. Track is designed as a level floor, with 2 to $2\frac{1}{2}$ " thick concrete poured on $1\frac{1}{2}$ to 2° deep structural metal deck and steel subframe. Structural frame to meet or exceed floor deflection criteria of 1/640. Track must be rigid and able to dampen all vibration from users.

Track finish: Synthetic sports floor consisting of a solid urethane or catalyzed rubber-urethane composition floor. PVC or vinyl composition floors are not recommended.

Thickness: 10 mil cushion pad with 1/2" overall topcoat thickness.

Alternate material: Granulized new or recycled rubber, granulized EPDM, or both used in combination with polyurethane binders. Directly adhered from cut rolls.

Thickness: Minimum 3/8"

Lane striping applied to the surface.

SYSTEMS

Plumbing

Gymnasium / Suspended Running Track

Water fountains: 1 per two courts.

Provide two water fountains in a single unit combination, or two separate units side by side to allow for one unit to be mounted at ADA height. One cuspidor minimum adjacent to fountains.

Electrically cooled unit recommended. Plan for, or locate fountains near a minimum (1) 110v, 20 amp circuit / outlet for either hardwired or plug-in.

It is recommended that water fountains be placed outside normal traffic paths and recessed into the wall plane if possible.

ADA provisions: Provide a minimum of 48"x 48" clear floor area in front of fountains for wheelchair access.

Mechanical (HVAC)

Mechanical heating, ventilation, and humidity control of the module is mandatory. Air conditioning needs are determined by ACE regional guidelines.

Operating range: System able to maintain 68 - 74 degrees (F) year-round at 50% relative humidity or less.

Preliminary design criteria: (Adjust locally)

Summer: Outside temperature 78 deg. F, RH 50%.

Winter: 32 deg. F., RH 30%

Air changes: 8-12 air changes per hour, negative pressure and minimum of 20CFM/person with CO₂ sensor.

Temperature controls: Independent to room, solid state and programmable. Ability to control peak and off-peak temperatures with 24 hour or one-touch setback programming recommended.

Air movement / control: Fully ducted supply and return. Spiral duct for exposed use within gym module. Main supply with one branch duct per court, minimum. Directional diffusers mounted to spiral duct system shall be engineered for maximum throw and even distribution over courts areas. Return air may be centralized but locate low to floor. No through-wall relief dampers. Natural (non-mechanically driven) ventilation is not recommended. Smoke and combustion duct detectors will be required. CO2 sensors may be required and are recommended for fully enclosed gymnasium.

Acoustical performance: Insulate all supply ducts and moderate air flow to reduce noise. Isolate all air handling equipment in a separate mechanical space dedicated for that use. Provide sound dampening for all equipment.

SYSTEMS

Lighting

Gymnasium / Suspended Running Track

Coordinate lighting: Review the lighting locations with the ceiling mounted equipment and watch for conflicts.

High Intensity Discharge (HID) fixtures. 750 to 1000w fixtures determined by engineer for 50fc min. across gym floor. 24'-0" on center spacing at 25'-27' above the finish floor is usually adequate. Metal halide lamping with 80% direct and 20% indirect is preferred.

Lighting control: Use of central control panel is recommended. Independent slide or toggle controls may also be used to control fixtures by groups. Grouping needs and/or preferences will be determined by circuit capacity.

No dimming required.

Light Level

50 foot-candles at the floor, minimum. Provide even distribution for courts. If suspended track is at 10'-0" provide supplemental impact resistant lighting under track.

Additional contribution of natural light via windows and/or skylighting is highly recommended.

SYSTEMS

Power

Gymnasium / Suspended Running Track

Convenience power (general cleaning and service): 110v, 20 amp circuits. Spaced at 20'-0" o.c. minimum around the perimeter of the room.

Power considerations for equipment are: 30 amp dedicated circuits, one per backstop motor 30 amp dedicate circuit for ball curtains, one per motor. Synthetic floors may require 30 amp circuit for specialized scrubber. Verify maintenance plan as part of power description.

Power requirements in this Technical Criteria manual are for CONUS installations. OCONUS power requirements should be addressed on a location by location basis.

Technology / AV

At a minimum, all facilities should provide an electronic scoreboard in full working order. Scoreboard to be visible to officials and players and appropriate for programmed sports.

If consistent with the mission of the facility, consider providing video connections, wall mounted in gymnasium for portable video camera use, with outlet linked via cable, to monitoring equipment (i.e. video recording, multiplex video control /output, TV monitors, or base wide cable system).

Sound

Ceiling mounted speakers for public announcements.

Sound system: Built-in system for announcing events in the Gymnasium. Suspended directional ceiling speakers, 200 watt minimum output rating, capable of reproducing human speech, minimum. If multipurpose functions are considered, provide speakers capable of CD quality sound reproduction of music.

Communications

Data wiring may be used to provide a scorer's table with links to a scoreboard in the gymnasium module. Scorer's table is generally located for one designated court, at mid court, and requires one (1) 4-outlet, 20 amp power outlet and two (2) Cat5 or better data connections, both in recessed floor boxes, centered under the anticipated table location, but outside the court boundaries. Data connection serves to link scorer's table with time clock on wall (or mounted on backstop) and with wall mounted scoreboard. Conceal conduit.

SYSTEMS

Acoustical Performance

Windows & Doors

Gymnasium / Suspended Running Track

See discussion of acoustical deck above in Mechanical.

Views into the space and admittance of natural light are recommended. Non-operable windows are mandatory for temperature / humidity control. Aluminum or hollow metal frames are recommended. Aluminum only for exterior openings. Tempered safety glass should be typical to the module. The potential for injury does not warrant selective location of safety glass.

Sun Shading devices: If natural lighting through windows is anticipated, shading devices may be necessary to avoid glare across courts at certain times of the day. Two main options for sun shading are 1) electrically operated rolling shades, or 2) draperies. Electrically operated shading devices are mounted in prefabricated housings directly over the window heads or recessed within the window opening. Control is provided via handheld or wall mounted remote with keyed on/off operation. Positional control is optional. Draperies are provided in a "walk-draw" lightweight translucent or opaque curtain, mounted on slide bearing tracks. Curtains must be of a length to extend to the floor and pulled open or shut by means of the long wand attached directly to the overhead support track. User then "walks" the curtain open or shut manually. Plan for "stack" space for collapsed and stored curtain. Multiple smaller curtains reduce stack space and improve ease of use.

Fixed shading from overhand and/or shading fins or grilles applied to the exterior of the building are not recommended. The intent of portable shading from curtains or roll screens is to reduce glare for a 1-2 hour period on east-west exposures twice per day. Permanently mounted shading elements limit design flexibility and are unnecessary for a majority of module use time. A more cost effective solution to glare is a reduction in visible light transmittance of 38% to 18% in exterior insulated glazing, when floor level or tall windows are desired, without cost of shade devices.

Skylights: Linear skylights may be used to enhance natural lighting and enhance visual appeal of the module. Recommend an aluminum framed, gable type skylight with laminated safety glass. Glass should have visible light transmittance of no less than 56% to provide significant light to the floor.

ADA (American's with Disabilities Act) General provisions:

All accessible features designed for public use shall offer a clear approach of no less than 36" x 36", and be mounted at a height of no greater than 54" and no less than 48."

Priority shall be placed on effective use of equipment by disabled patrons and not based solely on minimum access guidelines published by the ADA.

Storage: It is recommended that each gymnasium module be provided with one 300 to 500 square foot storage room with a 6'-0" pair of doors (no center mullion).

EQUIPMENT

Gym and Track Equipment

Gymnasium / Suspended Running Track

Basketball backstops: Two per court, overhead mounted. Electrically operated forward folding type in working order. Mounted to trusses with provided pipe support frame.

Rectangular glass backboard: NCAA official size (3'-6" x 6'-0") fabricated from ½ tempered glass with continuous edge gasket mounted with aluminum flange and breakaway rims. To be retractable or movable in working order.

Goals: Safety reflex type, with 5/8" steel rod ring and "no-tie" steel attachments. 120 thread, retarding type netting.

Divider Curtains: For multi court gyms, it is recommended that at least one court be capable of segregation from other ball activities. Curtains to be electrically operated folding mesh fabric with solid vinyl bottom panels. Curtains are mounted to bottom of trusses on steel subframes. Lower panels are of solid polyester reinforced vinyl fabric, 18 oz./ sq. yd. min weight, to a height of 2'-8" above the finished floor. Middle Mesh is vinyl coated polyester mesh weighing not less than 6 oz. / sq. yd.- from 2'-8" to 18' above the finished floor. Upper curtain portion is generally open to structure above. Specify the curtain be fully retractable to the bottom of the structure.

Volleyball: Steel posts of hollow tubes 3 ½" diameter with powder coated or zinc plate finish. Nets are tensioned to the posts by use of a ratchet winches with removable handles.

Floor plates and sleeves: Galvanized steel tubing, mated to the post diameter, are cast into the floor and the hole is covered with a solid brass plate with removable lid. Use of flip up cover plates is not recommended. Plate lid must be removed from the area of play to prevent accidental injury.

Nets: Specifically designed for volleyball use, black, with heavy web sides and bottom. Double sewn vinyl top binding with rope cable and antenna (for out of bounds markers).

Post padding: All posts must be padded during use. Provide a 6'-0" high, 1" polyurethane foam core, vinyl covered pad. Designed to wrap the pipe with Velcro closures.

Referee platform (optional): If competition volleyball is anticipated, it is recommended a referee's platform be provided consisting of a 1" tubular steel frame, wooden platform, and padded seat. Platform is attached to one vertical post and supported on the floor with adjustable legs. Platform legs are also padded as for posts.

EQUIPMENT

Gym and Track Equipment

Gymnasium / Suspended Running Track

Tennis: Provide manufacturer that can work with the volleyball post insert spacing, rather than adding new post openings for tennis netting. Provide dedicated tennis posts of 3 ½" tubular steel with ratchet winches. Option exists with some manufacturers to use sectional volleyball posts suitable for mounting tennis netting. If used, netting dedicated for tennis use shall be provided with black webbing and solid vinyl top binding. A center tie-down will be necessary, constructed of a 1" steel tube, drilled and epoxy set into the concrete subfloor. A small steel loop within the tube is provided to clip the tennis center net tape directly to the floor. No floor cover is needed for the tie-down.

Portable backstops (optional): For heavy peak use, portable basketball backstops (set for cross court use) may be provided. Storage for the portable units should be provided when not in use. Providing a backstop that will meet all NBA or NCAA requirements will provide a basis for minimum quality. Space needs then become the other primary factor in comparing manufacturers for selection.

Floor protection: If function of gymnasium for other than recreational use is anticipated, it is recommended that a floor protection system for the wood floor be provided. This consists of either 1) reinforced 10 mil polyethylene sheet stored on 10' to 12' wide rolls mounted on portable frames, or 2) neoprene or plastic sheets cut into 3' or 4' interlocking or flush edge units, placed individually to cover selected areas. Units are stacked when not in use.

Lighting, backstop and ball curtain maintenance will require the purchase of a man lift to reach devices 23' to 30' above the finished floor. Wood floors can tolerate 35 lbs per square inch with an evenly distributed load. Synthetic floors can tolerate approximately 55 lbs per sq. in. without permanent deformation of the cushion layer. Both floors require the use of 3/4" plywood panels to cover the travel path of the lift. The plywood properly distributes the point loading of the lift wheels. Size lift according to height needs limited by the amount of floor load imposed. If stored on the premises, plan for storage room doors to have adequate head room for fully depressed lift to fit through door opening.

Bleachers: Bleachers to be wall-mounted, retractable bleachers in good condition and sized to accommodate normal spectator requirements.

Fitness Module (Cardio, Circuit, Free Weight) **MODULE** 2,325 SF Flexible Dimensions in each building. X-Small **Overall Fitness Program Area** 4.645 SF Maintain standard of 50SF for Small 7,300 SF Cardiovascular and Circuit Stations Medium -11,500 SF and 65SF for Free Weight Station Large 550 SF Orientation: Cardiovascular X-Small Glare control at eye level is necessary when Small 1.350 SF 2,550 SF orienting Fitness Modules to exterior views. Medium Exterior ground level views should be limited 4,000 SF Large to north elevations only. East and west views should be limited to clerestory windows, 7'-0" Circuit (Selectorized Equipment) 800 SF X-Small a.f.f. or higher to sill. South exterior glazed 1,150 SF Small openings are not recommended. When sun 1,500 SE Medium shading devices are not used, visible light 2,300 SF Large transmittance or insulated glass is preferred at 38% or less (58% is considered "clear" Free Weight X-Small 975 SF glazing). Small 2,145 SF 3,250 SF Medium 5,200 SF Large **Function / Description** Dedicated area providing space for three separate functions within the Fitness Module (Cardio, Free Weight, Circuit) Cardiovascular: training equipment such as treadmills, stationary bicycles, stair climbers, etc. Free Weight: free weight and plate loaded equipment, benches, and storage racks. Circuit: equipment with pin selected weights **Direct Adjacencies** Well-designed Fitness areas have become the most popular destination in Physical Fitness Facilities. A direct adjacency to the lobby and open circulation will accommodate supervision from the control area, and allow this space to become a major focal point. Cardiovascular theaters, open ceilings, color and lighting will all help to draw users into the space. Key adjacencies for function include Control Area, Locker Room and Storage Area. **Indirect Adjacencies Ceiling Height** Minimum of 12'-0" ceiling height with 14'-0" preferred.

MATERIALS & FINISHES

Ceiling Finishes

Fitness Module (Cardio, Circuit, Free Weight)

Highly light reflective and sound absorbent materials. Provide 2'x 4' or 2'x 2' lay-in, wet-formed mineral fiber acoustical panels, on standard "T" shaped pre-finished metallic grid system. 15/16" or 9/16" wide "T" grids are preferred.

Face design: Non-directional fissured face designs are preferred to reduce installation cost and waste.

Edge design: "Flush" (square edges) or "tegular" (routed edges).

Impact resistance: standard durability rating.

Sound absorption for acoustical panels: No less than .55NRC.

Surface light reflectance: No less than .80.

To improve lighting distribution within the room, use standard manufacturer's white color. Increase lighting output with off-white colors and/or panels with less than .80 light reflectance. Refer to lighting guidelines.

Humidity resistance: No special protection.

Fire resistance: Use only Class A rated materials as determined by recognized testing labs such as Underwriters Laboratories (UL). Provide fire resistive system components where ceiling-floor assembly contributes to the fire protection of habitable space on floor(s) above the module.

Seismic requirements: Provide sway bracing for ceiling grids installed in seismic zones where local building codes would normally require additional protection from fallout of panels and lighting.

Overstock: Request a minimum of 2% overstock of panels for future replacement.

Accent activity areas with the use of dropped gypsum board false beams. Refer to Lobby guidelines for similar application.

MATERIALS & FINISHES

Wall Materials

Fitness Module (Cardio, Circuit, Free Weight)

Concrete masonry units (CMU). Moisture controlled Type 1, normal weight, hollow core.

Locations: To 6' - 8' above the finished floor (a.f.f.) minimum. Full height concrete masonry preferred. Gypsum board on steel studs may be used above CMU when out of reach of patrons. Freestanding column covers may be CMU or gypsum board on metal studs with full athletic padding to 6'-0" a.f.f.

Size and Face design: Plain 8 (high) x 16 (wide) x 8 (deep) units or "scored" with a vertical 3/8" false joint to appear as an 8 x 8 x 8 unit when placed in running or stack bond.

Compressive strength: 1900 psi minimum.

Bond: Running bond for load or non-load bearing partitions. Stack bond to be used with non-load bearing partitions only.

Face finish: Manufacturer's standard finish for painted blocks. Ground or burnished faces where painted finish is not desired.

Horizontal accent bands of different colors of burnished block to add visual interest as base courses, "crown" molds, and as wainscots, may be used.

Special shapes: Use bullnose corner units at all outside corners.

Wall Finishes

Ground face CMU from manufacturers standard aggregate mixes. Request temporary anti-stain coating (for transportation to site) and penetrating, clear anti-graffiti coating after installation.

Standard block painted with water based epoxy coating, semi-gloss.

Apply a heavy acrylic block filler spray applied and backrolled to a pinhole free surface, and two epoxy finish coats of 5 to 6 mil Dry Film Thickness (DFT).

Gypsum board (when used) with a water based epoxy, semi-gloss finish. Apply one coat compatible primer with two finish coats of 5 to 6 mils. DFT.

Ferrous metals (window and door frames): water based epoxy. Apply one coat primer compatible with finish coat, and as barrier coat to factory primer. Two finish coats of 5 to 6 mils. DFT.

Mirrors: Provide ¹/₄" tempered mirror glass with 15 year warranty silver coating on at least half of two perpendicular walls in free weight area. Mount mirrors at 2'-0" above the finish floor, to a height that provides full body visibility or align with door head height. (See drawing for mirror location)

MATERIALS & FINISHES

Flooring

Fitness Module (Cardio, Circuit, Free Weight)

Substrates: Where possible, provide a min. 4" thick, level concrete slab on grade over properly graded crushed stone sub-base, with a 10 mil polyethylene sheet vapor barrier located directly between the slab and the subbase. Where continuous water is anticipated beneath floors due to local conditions, a subsurface drainage system is recommended.

Critical item: When a new or existing floor's construction cannot be determined to meet the minimum construction noted above, perform a moisture test in order to measure retained and film forming moisture at the surface of the slab. The directly adhered rubber products recommended herein have maximum moisture content standards that cannot be exceeded prior to application of the flooring and over the entire warranty period of the floor. In deficient substrates, additional floor treatment may be necessary to meet these moisture constraints. It is recommended that the selected flooring manufacturer make recommendations suitable to their products and warranty requirements.

Floor tolerances: No more than a single 1/4" defect in 10'-0" each direction, non-averaged for the full length of the floor. Follow flooring supplier's recommendations for filler and surface priming materials compatible with the anticipated flooring adhesives.

Modular rubberized tiles - Free Weights:

Type: Granulized new rubber, granulized EPDM, or both used in combination with polyurethane binders. Directly adhered. Recycled rubber not acceptable due to potential of off-gassing.

Sizes: Typically 36 - 38" square tiles, with square edges (non-interlocked). Rolled sheet versions of these products are not recommended in Fitness modules. See finish guidelines below.

Finish: Due to color variations inherent to the products, single, solid color floors are not recommended. Use speckled tiles or complimentary colored tiles in a variegated or regular pattern (checkerboard). Minimum 3/8" thick recommended. Greater thicknesses are available and may be used when above peak-time activity is typical to the facility.

Note: Flooring in excess of 3/8" may require special transitions to avoid access conflicts with the Americans with Disabilities Act. See "ADA" comment below.

Material Weight: Density no less than 65 lbs./cu.ft.

Durability: Shore A hardness of no less than 60.

Floor Edge treatments: Extend the flooring material up the face of wall to 2'-0" a.f.f. and cap with a finished hardwood wainscot trim. Above average physical abuse to the lower half of walls is typical to Fitness modules. Rubber wainscot resists foot scuffs, "tipping" of free weights against walls, and impact from equipment. To optimize adhesion, the paint finish must be deleted directly behind rubber wainscots.

Transitions: Rubber tile to dissimilar floor materials; use solid rubber transition strips sized to match the heights of the dissimilar materials.

ADA provisions: Floor to floor transitions cannot exceed ½" in elevation difference at the transition. Larger stepped transitions must be ramped at no greater than 1:10 (with handrails) to 1:20 (no handrails required).

MATERIALS & FINISHES

Flooring

SYSTEMS

Mechanical (HVAC)

Fitness Module (Cardio, Circuit, Free Weight)

Cardio Area Flooring Material: Solution dyed, level loop nylon antistatic carpet, with anti-microbial treatment for resistance to mold and mildew. Carpet tile or roll product are both acceptable. See Circuit Area Flooring.

Minimum specifications: 26 oz yarn weight, 45-60 oz finished weight with woven polypropylene backing. 5/64 gauge minimum. 10 year wear / abrasion warranty. Minimum pile height .166" to .1875"

Circuit Area Flooring Material: Carpet tiles in solution dyed, level loop nylon with antistatic and anti-microbial treatment and a solid resilient backing layer. Preferred: Granulized EPDM tiles as used in the Free Weights Module. Uneven wear inherent to circuit training makes roll and seamed flooring not cost effective in the long term.

Mechanical heating, ventilation, and humidity control of the module is mandatory. Air conditioning needs are determined by ACE regional guidelines.

Operating range: System able to maintain 68 - 74 degrees (F) year-round at 50% relative humidity or less.

Preliminary design criteria: (Adjust locally)

Summer: Outside temperature 78 deg. F, RH 50%.

Winter: 32 deg. F., RH 30%

Air changes: 18 air changes per hour, negative pressure and 25CFM/person. Will be provided with CO₂ sensor.

Air movement / control: Fully ducted supply and return. Passive or plenum return not recommended.

Supply diffusers are to be adjustable metal grilles with four-way air movement and blade-type vanes. Return air grilles may be perforated plate or blade type. All diffusers to be pre-finished.

Ceiling fans are recommended throughout. Maximum 144 sq. ft. floor area served per fan. Independent wall mounted or infrared remote controls. It is not recommended that fans be controlled in groups.

Temperature controls: Independent to room, solid state and programmable. Ability to control peak and off-peak temperatures with 24 hour or one-touch setback programming recommended.

Ductwork shall be insulated sheet metal rectangular or circular duct routed adjacent to diffuser locations. Use flexible duct drops to diffusers.

Natural (non-mechanically driven) ventilation: Not recommended.

SYSTEMS

Plumbing

Lighting

Fitness Module (Cardio, Circuit, Free Weight)

Water fountains: 1 per 150 patrons at peak time use. One unit minimum with any size module. Provide two water fountains in a single unit combination, or two separate units side by side to allow for one unit to be mounted at ADA height. Electrically cooled unit recommended. Plan for, or locate fountains near a minimum (1) 110v, 20 amp circuit / outlet for either hardwired or plug-in.

It is recommended that water fountains be placed outside normal traffic paths and recessed into the wall plane if possible.

ADA provisions: Provide a minimum of 48"x 48" clear floor area in front of fountains for wheelchair access.

Indirect (80%) direct (20%), pendant mounted fluorescent lighting in linear configurations are preferred. Supplement with round recessed fluorescent (PL lamp) down-lighting to overcome shadows from obstructions or to highlight certain areas.

When ceilings heights do not allow pendant mounted or suspended lighting, direct 2 x 4 lay-in fluorescent fixtures may be used but are not recommended due to lower light quality (excessive glare and static distribution). Reveal edge fixtures with prismatic lenses preferred.

Locations: Lights are located based on the output of the fixture, distribution pattern of the fixture at the anticipated ceiling height, and desired overall light level (measured in footcandles) at the floor. See "Light level" guidelines. Recommendations of fixture spacing may be obtained from the selected fixture supplier or with the services of an illumination engineer.

For preliminary purposes, 2 tube 40w pendant mounted indirect fixtures generally provide the required light level for the Fitness module in continuous strips placed at 4'-0" o.c.. 2 x 4 4-tube (40w) lay-in recessed fixtures provide the same light levels at a rate of 1 fixture per 112 sq. feet. (8' x 14' area). Validate all fixture spacings with the manufacturer.

Lighting control: Use of occupancy sensors to activate lighting by motion detection, is recommended. Independent slide or toggle controls may also be used to control fixtures by groups. Grouping needs and/or preferences will be determined by circuit capacity.

No dimming required.

If used, pendant mounted indirect lighting typically utilizes remote ballast. It is recommended that ballast be located above accessible ceilings. Plan to provide ceiling access to service ballasts.

SYSTEMS

Light Level

Fitness Module (Cardio, Circuit, Free Weight)

50 footcandles at the floor, minimum.

Additional contribution of natural light via windows and/or skylighting is highly recommended

Power

Convenience and specialized outlets required.

Convenience power (general cleaning and service): 110v, 20 amp circuits. Spaced at 10'-0" o.c. minimum around the perimeter of the room and at freestanding columns located more than 10'-0" from the walls or the nearest outlet.

Specialized (equipment) power: 110v, 30 amp dedicated outlets. One per piece of equipment, minimum. Use floor mounted, dual or quad outlet, recessed boxes as required to meet equipment count. Solid brass cover plates, flush mounted.

Power requirements in this Technical Criteria manual are for CONUS installations. OCONUS power requirements should be addressed on a location by location basis.

Critical item: Floor boxes must be mounted above the substrate at a height equal to the thickness of the finish floor system. (i.e. 3/8" for rubber tiles), including the thickness of the box cover plate. Cover plates with flip-up or hinged lids are not recommended. Where outlets are in use, cover plates should be removable or lay flush so as to not contribute to a tripping hazard.

Critical item: Early determination of equipment purchase and a preliminary equipment layout is highly recommended in order to determine in-floor power needs and box locations. The fitness module should be designed to the equipment whenever possible.

Spacing (preliminary): 8'-0" on center, each way.

SYSTEMS

Technology / AV

Sound

Communications

Acoustical Performance

Fitness Module (Cardio, Circuit, Free Weight)

Data, sound and video required.

Data outlets: Dedicated and located at points to be determined by project engineer as follows: Data outlets at cardiovascular equipment floor boxes to accommodate computerized equipment input / outputs, as occurs. 1 data port per each power outlet provided.

Data ports: required for workstations used to track and/or monitor fitness performance. 1 workstations minimum per 100 patrons / hourly at peak time. Centralized location. Data port required for card access device to monitor access security and peak occupancy. Data ports as required around the perimeter of room for mobile monitoring workstations. 1 data port per convenience outlet location.

Sound system: Flush recessed ceiling speakers, 100 watt minimum output rating, capable of reproducing the entire audible range for (CD quality) music, minimum.

Sound sources: Commercial amplifier, filtered for EM interference.

- Public Address / microphone station
- Cassette / CD combination unit
- Television monitors.
- Optional: VHS or DVD playback device.

Locate sound equipment in a centralized control location. Typically provide a lockable, glass door vertical rack for mounting the A/V equipment.

Sound amplification requirements are determined by the combined sound source output and the desired reproduction sound level minus the acoustical performance rating of the space. See "acoustical performance" guidelines above.

Video: Option to provide television or CCT monitors at cardiovascular equipment. Ceiling mounted with vertical drops for cable.

One telephone per 100 patrons at peak use.

Acoustic performance: No extraordinary sound reduction treatments are required. See individual material requirements. In order to analyze the potential need for additional sound reduction, the following criteria apply:

Optimum peak sound level is 40 to 50 db constant (at 1000hz minimum), during peak operation times.

- PNC (Preferred Noise Criteria) Curve 55 to 60.

Recommended average coefficient of sound absorption of all materials in combination is no less than .50. ("Live" acoustics are desirable) Acoustical ceilings that follow these guidelines are mandatory Sound absorption via ceiling materials shall be no more than 5db of the total desired reduction. Provide acoustic wall panel material where needed to bring noise levels and reverberation down to acceptable levels.

SYSTEMS

Windows & Doors

Fitness Module (Cardio, Circuit, Free Weight)

Provide views into adjacent spaces and/or public ways.

- Aluminum or hollow metal frames are recommended.

Tempered glass should be typical to the module. The incidence of impact above the building code minimum should be expected.

ADA (American's with Disabilities Act) General provisions:

All equipment accessible to disable patrons shall have an clear approach of no less than 36" wide by 48" deep when measured from the correct operating position of the equipment.

All aisles between equipment shall be no less than 36" in clear width. 48" is preferred.

All workstations, drinking fountains, communications devices and accessible features designed for public use shall offer a clear approach of no less than 36" \times 36", and be mounted at a height of no greater than 54" and no less than 48."

Priority shall be placed on effective use of equipment by disabled patrons and not based solely on minimum access guidelines published by the ADA.

EQUIPMENT	Fitness Module (Cardio, Circ	cuit, Free	Weigh	nt)	
Fixed Equipment					
				Medium	_
Loose Equipment	See the Next Page for a complete list of loose equipment for all PFF				
	sizes including equipment included in the "Increment" sum for increasing the Large PFF by				
	population.				
		- ———			
Loose Equipment Notes					



Cardiovascular Equipment

Commercial Grade Electronically Controlled

	Treadmill
	Elliptical Trainer
	Cross Trainer/Hiker
	Stationary Bike (Upright)
	Stationary Bike (Recumbent)
	Stairclimber/Stepper
	Rowing Machine
	Skier
	Kayak Machine
	Skate Machine
ul	btotal

4	10	20	30	16
3	8	14	23	10
A	A	A	A	A
3	5	10	15	8
В	В	В	В	В
1	4	7	12	6
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
11	27	51	80	40

	X-SMALL ZIS25 SF	SMALL 4,645 SF	MEDIUM 7,300 SF	LARGE 11,500 SF	INCREMENTAL + 5,750 SF
rength Equipment	MODELLOIL				
Commercial Grade Selectorized/Stack Weight	Machines				
Multi-Station (Ex. 6 stations)	1	0	0	0	0
Leg Extension	С	1	2	2	1
Leg Curl (Seated)	С	1	1	1	1
Leg Curl (Horizontal/Prone)	D	D	1	1	D
Leg Curl (Standing/Kneeling)	D	D	D	D	D
Leg Press (Seated/45deg)	1	1	1	1	1
Leg Press (Horizontal/Supine)	D	D	1	1	D
Leg Press (Lunge)	0	0	D	D	D
Calf Raise (Seated)	1	1	1	1	1
Calf Raise (Standing/Donkey)	D	D	D	D	D
Calf Raise (45deg)	D	D	D	D	D
Rotary Calf	D	D	1	1	D
Abductor	0	1	1	2	0.5 K
Adductor	0	1	1	2	0.5 K
Multi-Hip Machine (Rotary Hip)	1	1	1	1	0.5 K
Hip Extension	0	0	0	0	D
Glute Isolation	0	0	0	0	D
Bent Arm/Pectoral Fly	C	1	1	2	0.5 K
Straight Arm Fly/Rear Delt	1	1	1	2	0.5 K
Chest Press (Seated)	С	2	2	2	1
Chest Press (Horizontal/Supine)	D	D	D	D	D
Incline Press	1	1	1	1	0.5 K
Decline Press	0	1	1	1	0.5 K
Lat Pulldown	С	1	2	2	0.5 K
Lat Pullover	0	1	1	1	0.5 K
Low Row	С	1	1	1	0.5 K
High Row	0	0	0	0	D
Rear Deltoid (Seated)	0	0	0	1	0.5 K
Rear Deltoid (Horizontal/Prone)	0	0	0	D	0
Back Extension	1	1	1	1	1
Lateral/Deltoid Raise	1	1	1	1	1
Shoulder/Overhead Press	С	1	1	2	1
Bicep Curl	1	1	1	2	1
Tricep Extension	1	1	1	2	1
Tricep Dip Extension (Press)	1	1	1	1	0.5 K
Wrist Curl	0	0	0	0	0
Neck Isolation	0	0	0	1	0
Smith Machine (H)	1	1	2	2	1
Cable Crossover w/ Chin-up Bar	1	1	1	2	1
Cable Station (2 sided)	1	1	1	2	0.5 K
Ab Crunch	1	1	1	1	0.5 K
Rotary Torso Pull-up/Dip Assist	0	0	0	1	0.5 K
IPHH-HD/LID Accief	1	1	1	2	0.5 K

X-SMALL	SMALL	MEDIUM	LARGE	INCREMENTAL
2,325 SF	4,645 SF	7,300 SF	11,500 SF	+ 5,750 SF
MODULE SIZ	E			

Strength Equipment

Leg Extension	0	0	0	1	0.5
Leg Curl (Seated)	0	0	0	1	0.5
Leg Curl (Seated) Leg Curl (Horizontal/Prone) (F)	0	0	0	D	0.3 D
	0				
Leg Curl (Standing/Kneeling)		0	0	D	D
Squat Press (Seated/45deg/Hip) (F)	0	1	1	2	1
Squat Press (Vertical/Hack) (F)	0	1	1	1	1
Squat Press (Horizontal/Supine) (F)	0	D	D	D	D
Squat Press (Jammer/Ground Based) (F)	0	0	0	D	D
Calf Raise (Seated)	0	1	1	1	1
Calf Raise (Standing)	0	D	D	D	D
Calf Raise (45deg)	0	D	D	D	D
Rotary Calf (F)	0	D	D	D	D
Tibia Dorsi Flexion	0	0	0	0	D
Abduction (F)	0	0	0	0	0
Adduction (F)	0	0	0	0	0
Glute Isolation	0	0	0	0	0
Chest Press (Seated) (F)	0	0	1	2	1
Chest Press (Horizontal/Supine) (F)	0	0	D	D	D
Wide Chest Press (F)	0	0	0	1	0.5
Incline Press (F)	0	0	1	1	1
Decline Press (F)	0	0	1	1	1
Military/Shoulder Press (F)	0	0	1	1	0.5
Lat Pulldown (F)	0	0	0	1	1
Lat Pullover (F)	0	0	0	1	0.5
Low Row (F)	0	0	0	1	0.5
High Row (F)	0	0	0	0	D
Rear Deltoid (Seated) (F)	0	0	0	1	0.5
Rear Deltoid (Horizontal/Prone) (F)	0	0	0	D	D
Back Extension	0	0	0	0	0
T-Bar/Lever Row (J)	1	1	1	1	0.5
Lateral/Deltoid Raise (F)	0	0	0	1	0.5
Shoulder Press (F)	0	0	1	2	0.5
Shrug (F)	0	0	0	1	0.5
Bicep Curl	0	0	0	1	1
Tricep Extension	0	0	0	1	1
Tricep Dip Extension (F)	0	0	0	0	D
Wrist Curl	0	0	0	0	0.5
Hand Grip Isolation	0	0	0	0	0.5
Neck Isolation (F)	0	0	0	0	0.5
Smith Machine (F)	0	1	1	2	0
Ab Crunch	0	0	0	1	0.5
Rotary Torso	0	0	0	0	0.5
ototal	1	5	10	26	16

	X-SMALL 2,325 SF	SMALL 4,645 SF	MEDIUM 7,300 SF	LARGE 11,500 SF	INCREMENTAL + 5,750 SF
Strength Equipment	MODULE SIZ	CE			
Commercial Grade Free Weight Equipment/I	Renches				
Dumbbell Sets (10pr)	G	G	G	G	G
Dumbbell Rack-1 Tier/5pr	0	0	0	0	0
Dumbbell Rack-2 Tier/10pr	1	2	3	4	2
Fixed Barbell Set (10 Assorted)	1	1	2	2	1
Fixed Barbell Rack	G	G	G	G	G
Weights (Assorted 2.5#-45#)	G	G	G	G	G
Weight Tree/Rack	G	G	G	G	G
Bars (Assorted/Loose)	G	G	G	G	G
Bar Rack	G	G	G	G	G
Benches (Assorted)	2	6	10	16	9
Squat Rack (F) & Bar	1	1	2	2	1
Bench Press (F) & Bar	1	3	4	6	4
Incline Press (F) & Bar	1	1	2	3	1
Decline Press (F) & Bar	1	1	2	3	1
Military/Shoulder Press (F) & Bar	1	2	2	4	1
Dead Lift Platform/Rack (F) & Bar	0	0	1	1	0.5 K
Power Cage/Rack (F) w/ Bar	1	1	1	2	1 1
Curl Bench (Seated)	1	1	2	2	1
Curl Bench (Standing)	0	1	1	2	D
Leg Raise/Dip	1	1	1	1	1
Chin-Up/Dip	0	0	0	1	0.5 K
Back Extension	1	1	1	1	1 1
Abdominal Board	1	2	3	4	2
Subtotal	14	24	37	54	27
Equipment Summary Cardiovascular Equipment	21				2,
	11	27	5.1	90	40
Electronically Controlled Subtotal	11 11	27 27	51 51	80	40
	11	21	31	00	40
Strength Equipment	<u> </u>				
Selectorized/Stack Weight Equipment	16	27	33	46	20
Plate Loaded Equipment	1	5	10	26	16
Free Weight Equipment/Benches	14	24	37	54	27
Subtotal	31	56	80	126	63
TOTAL	42	83	131	206	103

Notes:

- (A) Cross Trainer may be substituted for Elliptical Trainer.
- (B) Recumbent may be substituted for upright configuration.
- (C) Inclusive in Multi-Station machine as an example.
- (D) Alternate configurations may be substituted for typical exercise configuration (Ex. Horizontal, Standing, Kneeling, etc.).
- (E) Dip extension may be substituted for extension configuration.
- (F) Integral weight storage consideration to reduce Weight Tree & space requirements.
- (G) Actual count dependant on station count & requirements.
- (H) Plate Loaded Smith Machine may be substituted for Selectorized/ Stack Weight Smith Machine
- (J) Rear Deltoid may be substituted for T-Bar Row
- (K) For ".5" Equipment quantity for "Incremental" Module Size, select a total quantity of pieces that does not exceed the allowance shown in the Subtotal.

MODULE	Exercise Module (Aerobics and Non-Structured)
Overall Program Area	X-Small 2,200 SF Aerobic 1,200 SF Non-Struct. 1,000 SF Small 2,900 SF Aerobic 1,650 SF Non-Struct. 1,250 SF Medium 4,550 SF Aerobic 2,800 SF Non-Struct. 1,750 SF Large 7,000 SF Aerobic 4,500 SF Non-Struct. 2,500 SF
Function / Description	Classrooms to accommodate instructional fitness programs that may include aerobics, martial arts, yoga, step-conditioning, boxercise, etc. Rooms should facilitate flexible arrangements for a variety of setups. Equipment setup and tear down time will effect the rollover of exercise modules.
Direct Adjacencies	Storage rooms for convenient removal or retrieval of mats and exercise equipment. Proximity to Control Desk for check-in is important. Most classroom participants arrive at the facility dressed in their exercise clothing and go directly to the studio. However, many participants change from their street shoe to a softer shoe. Storage cubicles within the room for shoes, purses and small gym bags is necessary.
Indirect Adjacencies ——	Restrooms. Drinking fountain.
Ceiling Height	10'-0" preferred. 9'-0" minimum.

MATERIALS & FINISHES

Ceiling Finishes

Exercise Module (Aerobics and Non-Structured)

Highly light reflective and sound absorbent materials. Provide 2'x 4' or 2'x 2' lay-in, wet-formed mineral fiber acoustical panels, on standard "T" shaped pre-finished metallic grid system. 15/16" or 9/16" wide "T" grids are preferred.

Face design: Non-directional fissured face designs are preferred to reduce installation cost and waste.

Edge design: "Flush" (square edges) or "tegular" (routed edges).

Impact resistance: standard durability rating.

Sound absorption for acoustical panels: No less than .55NRC.

Surface light reflectance: No less than .80. To improve lighting distribution within the room, use standard manufacturer's white color. Increase lighting output with off-white colors and/or panels with less than .80 light reflectance.

Humidity resistance: No special protection.

Fire resistance: Use only Class A rated materials as determined by Underwriters Laboratories (UL). Provide fire resistive system components where ceiling-floor assembly contributes to the fire protection of habitable space on floor(s) above the module.

Seismic requirements: Provide sway bracing for ceiling grids installed in seismic zones where local building codes would normally require additional protection from fallout of panels and lighting.

Overstock: Request a minimum of 2% overstock of panels for future replacement.

Accent functional areas or improve aesthetics by the addition of single layer, gypsum board "dropped" soffits or bulkheads on metal studs. Use of dropped soffits allows concealment of lower items (i.e. ceiling fans, structure, or utilities) while allowing the majority of ceiling to be increased in height. Install around perimeters of rooms, or across ceilings in an arrangement of "false beams." Area of solid, sound reflective surfaces should not exceed 15% of the total ceiling area.

"Modular" soffit arrangement: Where possible, design and size soffits and bulkheads to allow the use of full acoustical panels in each direction. For non-modular areas, center ceilings by using balanced border widths where panels are cut to fit.

Coordinate lighting: With direct lighting (recessed in ceiling) locate bulkheads and acoustical panel arrangements with the optimum lighting locations first, then consider the pattern of the panels and placement of bulkheads.

Where soffits exceed 36" in width and/or 12" in depth, consider supplemental lighting in the bottom of the soffit to avoid shadowed areas across the ceiling plane or at upper portions of wall planes.

MATERIALS & FINISHES

Wall Materials

Exercise Module (Aerobics and Non-Structured)

Concrete masonry units (CMU). Moisture controlled Type 1, normal weight, hollow core.

Size and Face design: Plain 8 (high) x 16 (wide) x 8 (deep) units or "scored" with a vertical 3/8" false joint to appear as an 8 x 8 x 8 unit when placed in running or stack bond.

Compressive strength: 1900 psi minimum.

Bond: Running bond for load or non-load bearing partitions. Stack bond to be used with non-load bearing partitions only.

Face finish: Manufacturer's standard finish for painted blocks. Ground or burnished faces where painted finish is not desired.

Horizontal accent bands of different colors of burnished block to add visual interest as base courses, "crown" molds, and as wainscots, may be used.

Special shapes: Use bullnose corner units at all outside corners.

Wall Finishes

Standard block with water based epoxy coating, semi-gloss.

Apply a heavy acrylic block filler spray applied and backrolled to a pinhole free surface, and two epoxy finish coats of 5 to 6 mil Dry Film Thickness (DFT).

Ferrous metals (doors and frames): water based epoxy.

Apply one coat primer compatible with finish coat, and as barrier coat to factory primer.

Two finish coats of 5 to 6 mils. DFT.

Mirrors: Provide ¼" tempered mirror glass with 15 year warranty silver coating on 50% of at least two perpendicular walls. Mount mirrors at 8" above the finish floor to a height that provides full body visibility or align with door head height.

MATERIALS & FINISHES

Flooring

Exercise Module (Aerobics and Non-Structured)

Substrates: The same substrate provisions for Fitness and Cardio floors apply to the requirements of this section.

Aerobic floor: Machine milled and formed solid maple strip flooring that meets or exceeds MFMA (Maple Flooring Manufacturers Association) specification for a "second or better" grade.

Size and construction: 33/32" thick x 2 ½" width minimum. Provide a floating system with two bonded bi directional plywood backing layers, supported on neoprene cushion pads (3/4" high) and continuous 7/16" to ¾" thick EPDM cushion pad for an overall performance of 68% or better shock absorption. DIN certified for aerobic use. Verify absorption requirements with activity coordinator.

Floor will have noticeable flex but with firm feel during aerobic activities.

Retrofit floors will require a sleeper system above the cushion pad for leveling purposes.

SYSTEMS

Plumbing

No plumbing provisions for this module, however, a drinking fountain or water cooler should be located in an adjacent space.

SYSTEMS

Mechanical (HVAC)

Exercise Module (Aerobics and Non-Structured)

Mechanical heating, ventilation, and humidity control of the module is mandatory. Air conditioning needs are determined by ACE regional guidelines.

Operating range: System able to maintain 66 - 72 degrees (F) year-round at 60% relative humidity or less.

Preliminary design criteria: (Adjust locally)

Summer: Outside temperature 78 deg. F, RH 50%.

Winter: 32 deg. F., RH 30%

Air changes: 12-14 air changes per hour, negative pressure and

25CFM/person. Will be provided with CO₂ sensor.

Temperature controls: Independent to room, solid state and programmable. Ability to control peak and off-peak temperatures with 24 hour or one-touch setback programming recommended.

Air movement / control: Fully ducted supply and return. Use spiral duct if existing ceiling is exposed structure. Directional diffusers mounted to spiral duct system shall be engineered for maximum throw and even distribution. Ceiling-mounted diffusers will be standard 2x2 units with directional vanes. Return air may be centralized.

Natural (non-mechanically driven) ventilation: Not recommended.

Indirect (80%) direct (20%), pendant mounted fluorescent lighting in linear configurations are preferred. Supplement with round recessed fluorescent (PL lamp) down-lighting to overcome shadows from obstructions or to highlight certain areas.

When ceilings heights do not allow pendant mounted or suspended lighting, direct 2 x 4 lay-in fluorescent fixtures may be used but are not recommended due to lower light quality (excessive glare and static light distribution; e.g. uniform lighting causes greater eye fatigue over long periods of time). Reveal edge fixtures with prismatic lenses preferred.

Dimming capability recommended but not required.

50 - 70 foot-candles at the floor.

Natural light via windows is not recommended. However, internal views to other spaces via windows is highly recommended.

Lighting

Light Level

U.S. Army Physical Fitness Facilities SYSTEMS Exercise Module (Aerobics and Non-Structured) Power Convenience power (general cleaning and service): 110v, 20 amp circuits. Spaced at 20'-0" o.c. minimum around the perimeter of the room. Power requirements in this Technical Criteria manual are for CONUS installations. OCONUS power requirements should be addressed on a location by location basis. Technology / AV Provide recessed A/V rack with commercial grade amplifier, or amplifier and input/output control device, with minimum 2 microphone inputs. 400 watt minimum continuous output rating. Cassette / CD player with remote control. Provide two microphone outlets wired to locations remote from one another within the module for directed activities. **Sound** Ceiling mounted speaker for music reproduction. Sound system: Recessed ceiling speakers, 100 watt minimum output rating, capable of reproducing CD quality sound.

Communications

SYSTEMS

Acoustical Performance

Windows & Doors

Exercise Module (Aerobics and Non-Structured)

Aerobic activity will require partitions to be sound rated to 53STC minimum. Where glass walls are used to enhance interior views, front these walls to interior circulation and not into other activity spaces. One exception is the gymnasium. All other sound performance characteristics are comparable to the Fitness Module.

Hollow metal interior windows from traffic or lobby areas are recommended. Tempered safety glass is typical where glazing is 18" or closer to the floor. Tempered or laminated safety glass above that point depends on the potential for impact from adjoining activities. It is recommended tempered glass be used when precise potential cannot be determined. Adding horizontal mullions at 32-36" A.F.F. also reduces risks from casual contact with glazing.

Aluminum frames should be used when consistent with the interior design of adjacent spaces.

EQUIPMENT

Fixed and Loose Equipment

Exercise Module (Aerobics and Non-Structured)

Floor mats: Provide virgin vinyl fabric, double stitched and heat seam welded, over dense polyurethane foam core. Square edge. 4' x 8' mats sizes are recommended.

Architectural Casework: Provide storage cubicles along one wall of the module for incidental storage during activities:

Provide one cubicle per person at room's maximum occupant load. Cubicle design is generally an open face cube in modular "banks" aligned on one wall to counter top height or vertically with the tallest cubicle 5'-0" above finish floor. Cubicles shall be minimum 14" x 14" (18" x 18" preferred) face opening x 24" deep.

Construct cubicles of ½" minimum particle board shell with ½ plywood horizontal shelves. Shelves to be fixed. Entire construction veneered with .048 horizontal grade, high pressure plastic laminate. All sides, all surfaces. Edge trim of cubicle frames shall be solid hardwood (bonded) or 3 mil PVC edging routed into panel edge. Use of plastic laminate edges is not recommended.

If counter height, provide 1-1/2" thick .050 high pressure laminate counter with square edge front and $\frac{1}{2}$ " x 4" high backsplash against any wall surfaces abutting counter.

ADA (American's with Disabilities Act) General provisions:

All accessible features designed for public use shall offer a clear approach of no less than 36" x 36", and be mounted at a height of no greater than 54" and no less than 48."

Priority shall be placed on effective use of equipment by disabled patrons and not based solely on minimum access guidelines published by the ADA.

MODULE	Structured Activity
Overall Program Area	X-Small 2,000 SF 1 RB Court + 1,150 SF Discretional Use Small 2,000 SF 1 RB Court + 1,150 SF Discretional Use Medium 3,000 SF 1 RB Court + 2,150 SF Discretional Use Large 4,000 SF 2 RB Courts + 4,000 SF Discretional Use
Function / Description	Dedicated components that are designed and equipped to accommodate limited activities. Racquetball courts cannot be used for squash. Discretional space is allocated for each facility size and should be designed to accommodate the unique requirements of each facility. Some uses of this space may include a climbing wall, spinning studio, additional racquetball or squash court, additional aerobic studio, increased fitness, etc. Other uses could include a Health Assessment area.
Direct Adjacencies —	Structured activity components require scheduled times. Proximity to the control desk for check-in and equipment issue is important.
Indirect Adjacencies —	Restrooms. Main corridor system.
Ceiling Height	Racquetball Court ceiling height 20'-0" Climbing Wall ceiling height 20'-0" to 30'-0" max. Spinning Studio ceiling height 12'-0" to 20'0" max.

MATERIALS & FINISHES

Design Guidelines

Structured Activity

Description is of court area itself. Area surrounding court module may be similar to gymnasium construction or dedicated seating / corridor adjacent to racquetball area. Wall and floor construction around the racquetball courts should be of the same quality and durability as any recreation module within the facility. Refer to space planning guidelines for possible layouts. This module's guidelines assumes a racquetball function with a 20' x 40' x 20' high court, in single or multiple configuration.

Finished assembly size of courts, including wall thicknesses, are approximately 1'-2" larger than interior dimensions.

Squash courts use different court dimensions and particular features. Refer to squash court guidelines at the end of this section.

General design considerations:

Racquetball facilities are essentially rooms within a room. Exterior envelope, floor and roof system are assumed to be existing. With regard to special treatment of the building envelope: the floor substrate should follow the same guidelines for the Fitness module whether wood floors for courts or synthetic floors in the adjacent seating / waiting area are under consideration. Floor tolerances and wall tolerances require precise construction in court systems. If space is tight, the exterior walls or interior partitions must be plumb to within ½" in 10'-0" in the vertical and horizontal planes prior to starting the walls for the courts. Courts construction must also wait until environmental conditions within the building envelope meet recommended minimums and can be maintained during and after construction. For more detailed guidelines, see the requirements for each individual component.

Racquetball courts can be built by the general contractor with the assistance of a proper set of drawings and specifications and his or her own experience. Under a general contractor, the court components will be purchased individually and several suppliers will contribute to a single court, with the general contractor guaranteeing their proper coordination. Courts may also be constructed as a single unit by specialty suppliers (subcontractors) who provide court construction as a service with the sale of components. The subcontractor will then guarantee the performance of all components in their control. A racquetball court subcontractor can provide all components of a court with the exception of the final tie-in of electrical and HVAC connections to the court itself. The quality control of a single subcontractor is preferred, but tends to be more expensive and does not always produce a superior installation. As specialized construction, it is recommended that the Engineer consider the experience of contractors and the quality of court subcontractors in the region, prior to deciding to use multiple or a single court contractor/supplier.

MATERIALS & FINISHES

Ceiling Finishes

Structured Activity

General: Finished ceiling height for racquetball court is 20'-3" or greater. The necessary clear space above this height must take into account the thickness of the court roof, the height of lighting housings, clearance for ductwork overhead, and the depth of structural elements that are part of the floor/roof assembly above. As a preliminary guideline, allow 2'-0" plus the depth of the structure system above 20'-0" to accommodate these elements.

Finish: Highly light reflective and high impact materials.

Material: Pre-formed high density (62 lbs / cu.ft.) ½" thick resin core panels on concealed T- spline system. Panels come in either unfinished resin core for field painting, or prefinished white resin / laminate composite panels. Prefinished systems are preferred for their reduced life-cycle maintenance.

Face design: Smooth

Panel Edge design: Flush butt joints with no more than a 3/32" gap between panels

Impact resistance: high impact and 80 shore A durability rating.

Sound absorption for panels: Fiberboard may be mounted directly behind resin core panels to reduce "drum" effect of hard panels systems. Sound batts are also provided to reduce transfer noise to other spaces or in multi-court applications.

Surface light reflectance: No less than .80.

Humidity resistance: No special protection.

Fire resistance: Use only Class A rated materials as determined by Underwriters Laboratories (UL)

Fire resistive gypsum board mandatory when used as part of the ceiling system.

MATERIALS & FINISHES

Wall Materials

Structured Activity

Front and Side walls: High density resin core panels.

Sizes and thicknesses: ½" Thick resin core application over ½" thick sound cushion layer. Consistency in density of front and side wall materials is critical to proper ball performance.

Metal studs: 33ksi yield strength, load bearing studs, 18 gauge minimum. Typically 4" studs for 20' height, spaced at 16" o.c. Six inch (6") studs are preferred.

Face finish: Smooth and flush. Surface variations equal to or less than 3/32" gaps or variations in plane at panel joints. System walls "float" in relation to one another. Inside corners are kept loose with 1/16"- 1/8" gap at the vertical corners.

Critical item: Wall finish panels do not extend to the floor. End of panels are held off the substrate ½" minimum to allow walls to contract and expand without warping the surface. See floor guidelines below.

Back wall: Resin panel system to match side walls, OR glass walls when visual control and / or spectators are desired. The back wall of a court is only required to be 12'-0" high. The upper portion of the wall can be open to the spectator area, or as is often the case, allows for an upper level viewing area to look unobstructed on the court below. Competition courts generally prefer that the back wall run full height, but can use an 8'- 12' high glass partition at the floor line and use a solid wall panel system for the remaining height.

Glass wall system: ½" thick tempered glass walls and doors. Tall vertical walls (above 8'-0" a.f.f.) will require use of vertical glass stiffeners. Glass is structural and utilizes upper and lower channels only to retain 8' - 10'-0" high glass systems, with added edge panel hardware for tall glass systems.

Caution: review glass panel attachments to floor line with supplier to provide proper support and understanding of the floor to floor transition between spectator floor and the court floor. If both systems are not wood systems, court substrate will be recessed approximately $2 \frac{1}{2}$ " in relation to the spectator area.

Back wall doors shall be solid core wood or frameless glass doors with face finish to match wall system. In resin core applications, manufacturers of panels offer face panels for door applications. Door frames, where used, shall be heavy gauge aluminum with adjustable stops to provide a flush installation within regulation tolerances for court wall faces.

Critical Item: No surface fasteners or projecting hardware shall be used on the interior court face for any components. Accessory items, including doors and frames shall all use concealed fasteners. Door hardware shall be flush and recessed in the face of the door on the court side. Door width shall be no less than 34" clear for ADA use.

MATERIALS & FINISHES

Wall Finishes

Flooring

Structured Activity

Manufacturer's standard finish for resin core panels. Gypsum board systems require a minimum prime plus 2 coats water based epoxy paint to 5 -6 mil DFT overall, semi-gloss.

Substrates: Follow the same guidelines and cautions for substrate construction in the Fitness Module.

Floor tolerances: No more than ½" in 10'-0" each direction, non-averaged for the full length of the floor. Follow wood flooring supplier's recommendations for leveling uneven substrates.

Materials: Machine milled and formed solid maple strip flooring that meets or exceeds MFMA (Maple Flooring Manufacturers Association) specification for a "second or better" grade.

Size and construction: 33/32" thick x 2 ¼" width minimum, bonded to 2 layer bi-directional ½" thick plywood panels. Provide a system with ¾" thick wood or metal and wood composite support sleepers mechanically fastened to floor panels. Cushion pads on the underside of the sleepers is optional. Expansion control is critical to floor system. DIN certified system for court use.

Floor Edge treatments: Racquet ball court floors do not extend to the wall surfaces. Floor edge is held back from wall a maximum of 3/16" at head walls and $\frac{1}{2}$ " maximum at side walls, to allow for expansion and contraction of floor system.

ADA provisions: Floor to floor transitions cannot exceed ½" in elevation difference at the transition. Larger stepped transitions must be ramped at no greater than 1:10 (with handrails) to 1:20 (no handrails required)

Floor finish: Catalyzed polyurethane finish system requiring multiple sanding and application steps for a sanding sealer / primer base coat and two finish coats of gloss urethane. Floor striping is accomplished between the first and second finish coats.

Court striping: Painted striping, in the same epoxy system as the background wall finish, is necessary for the gypsum wall systems. Flooring striping is handled by the flooring manufacturer. Front and side wall striping is prefinished with resin core laminate panels, but must be painted onto the surface of unfinished resin core systems. Consult with a national racquetball association like USRA (United States Racquetball Association) for standards particular to competition in the project region.

SYSTEMS

Plumbing

Mechanical (HVAC)

Structured Activity

Water fountains: 1 per 150 patrons at peak time use.

Provide one drinking fountain near spectator area, but not necessarily directly adjacent to courts. It is undesirable for water to be available where it could be carried onto courts.

Electrically cooled unit recommended. Plan for, or locate fountains near a minimum (1) 110v, 20 amp circuit / outlet for either hardwired or plug-in.

Mechanical heating, ventilation, and humidity control of the module is mandatory. Air conditioning needs are determined by ACE regional guidelines.

Operating range: System able to maintain 60 - 68 degrees (F) year-round at 50% or less relative humidity.

Preliminary design criteria: (Adjust locally) Summer: Outside temperature 78 deg. F, RH 50%.

Winter: 32 deg. F., RH 30%

Air changes: 8 -12 air changes per hour, negative pressure and 20CFM/person. Will be provided with CO₂ sensor.

Air movement / control: Fully ducted supply and return. Passive or plenum return not recommended.

Supply diffusers are to be heavy gauge fixed metal grilles with four-way air movement and blade-type vanes. Return air grilles may be perforated plate or blade type. All diffusers to be prefinished, designed to be impact resistant. Preferred location is back wall supply and return.

Temperature controls: Independent to courts, with all controls centrally located, solid state and programmable. Ability to control peak and off-peak temperatures with 24 hour or one-touch setback programming recommended.

Ductwork shall be insulated sheet metal rectangular or circular duct routed adjacent to diffuser locations. Use flexible duct drops to diffusers.

Natural (non-mechanically driven) ventilation: Not recommended.

Lighting

Direct, recessed HID, metal halide fixtures preferred. Six per court to aid in lighting distribution.

Lighting control: Centralized lighting control station within sight line of the court(s). Circuit grouping needs and/or preferences will be determined by circuit capacity.

No dimming required.

SYSTEMS

Light Level

Power

Technology / AV

Sound

Structured Activity

70 - 75 Foot-candles at the floor, minimum. Competition racquetball courts are typically specified at 100 foot-candles minimum, but special care must be taken to guard for glare conditions at walls and floors. Minimum calculated wall reflectance shall be .65. Finished walls can achieve .80 but must be verified with panel manufacturer.

Contribution of natural light via windows and/or skylighting is not recommended.

No convenience outlets within the court system. Power for maintenance is to be provided in spectator / waiting area only, with close proximity to each court. Convenience power (general cleaning and service): 110v, 20 amp circuits. Spaced at 20'-0" o.c. minimum around the perimeter of the spectator / waiting area.

Specialized (equipment) power: 110v, 30 amp dedicated circuits for convertible court system if used.

Power requirements in this Technical Criteria manual are for CONUS installations. OCONUS power requirements should be addressed on a location by location basis.

No technology requirements.

Sound system: Flush recessed ceiling speakers, 100 watt minimum output rating, capable of reproducing the entire audible range for human speech. Link speakers to paging system with input / output modes for single court or all court paging. Provide at least one speaker location in spectator / waiting area with court speaker at back upper wall.

Sound sources: Commercial amplifier, filtered for EM interference. Public Address / microphone station.

Locate sound equipment in a centralized control location. Typically provide a lockable, glass door vertical rack for mounting the A/V equipment.

Sound amplification requirements are determined by the combined sound source output and the desired reproduction sound level minus the acoustical performance rating of the space.

Optimum peak sound level is 40 to 50 db constant (at 1000hz minimum), during peak operation times. Sound transmission class (STC) rating of court walls is 53 or better.

SYSTEMS

Communications

Acoustical Performance

Windows & Doors

Squash Court

Structured Activity

Paging function microphone and amplifier for court instruction from spectator area. Place amplifier within central line of sight in multi court installation or dedicate one court to instructional purpose.

Courts are hard sound reflective surfaces. Control only for sound transmission from courts to other activities. Refer to wall construction guidelines in this module.

Glass back walls are preferred. See the guidelines for wall materials in this module.

The main difference in squash courts is the overall dimensions. Squash courts are 32'-0" long x 21'-0" wide x 20'-0" high clear inside dimensions For international doubles. Other forms of play require differing court sizes. Verify principal use during planning.

Court striping differs slightly from racquetball and the front wall construction differs by the addition of a "telltale." This is an angled metal strip mounted approximately 2'-0" above the court floor to indicated a low serve considered out of play.

Generally, squash courts should be constructed separately from racquetball courts. When the demand for squash courts equals racquetball participation, and space is limited, the Engineer should consider a convertible court system.

Convertible courts are able to move partitions to meet the dimensions of either racquetball or squash court use. The movement system is specialized and requires the use of a single subcontractor to supply the walls, back wall, and hardware for the moving parts. Typically runners are provided in the floor for the back wall, and rollers provided on the base of the side walls. A continuous wood floor system is provided. The overall system occupies 4'-0" additional floor space in width than a standard racquetball or squash court fixed assembly.

EQUIPMENT

Fixed and Loose Equipment

Structured Activity

"Goody box:" It is highly recommended that a place for the storage of small valuables during play be provided for each court. Court manufacturers offer, as an option, a recessed metal box with flush cover and concealed fasteners, accessible from the interior side of the court only. It is recommended that at least one valuables box be provided per court.

Spectator bench: Provide one 5' long bench per court for waiting / spectator use. Bench is recommended to be provided in solid wood "butcher block" style top 1 -1/2" thick, on laminate covered pedestals with rubber base shoes. Benches should be permanently mounted to the floor.

ADA (American's with Disabilities Act) General provisions:

All equipment accessible to disable patrons shall have a clear approach of no less than 36" wide.

All aisles in spectator area shall be no less than 36" in clear width. 48" is preferred.

All drinking fountains and accessible features designed for public use shall offer a clear approach of no less than 36" x 36", and be mounted at a height of no greater than 54" and no less than 48."

Priority shall be placed on effective access by disabled patrons and not based solely on minimum access guidelines published by the ADA.

Calculation

Sauna, Lockers, Showers and Toilets

An estimation of program area need for User Support is based on a projected peak occupancy rate. The peak rate is based on an assumed percentage of occupied stations in each module. The demographic profile of the user group is assumed to be 65% men and 35% Women.

PEAK OCCUPANCY TABLE	X-small	Small	Medium	Large	Incremt.
Fitness - Cardio	10	21	47	78	31
Fitness - Circuit	7	16	23	46	23
Fitness - Free Wt Area	13	28	46	61	38
Exercise - Aerobic/Large	24	32	56	88	46
Exercise - Non	8	10	13	20	10
Structured - Racquetball	4	4	4	8	4
Other Structured	12	12	18	20	12
Gymnasium	15	30	45	60	15
Jogging Track	<u>48</u>	<u>66</u>	<u>102</u>	<u>150</u>	<u>0</u>
TOTAL	141	219		531	179
MEN (65%)	92	142	230	345	116
FEMALE (35%)	49	77	124	186	63
Toilets (1 per 30 Men)	3	5		12	4
Toilets (1 per 20 Women)	<u>2</u> 5	<u>4</u>	<u>6</u>	<u>9</u>	<u>3</u>
SUBTOTAL TOILETS	_	9	14	21	7
Toilet Space @ 15 sf	75sf	135sf		315sf	105sf
Circulation @ 15 sf	75sf	135sf	210sf	315sf	105sf
LAV (1 per 30 men)	3	5	8	12	4
LAV (1 per 25 female)	<u>2</u>	<u>3</u>		<u>7</u>	<u>3</u>
SUBTOTAL LAV	5	8	13	19	6
LAV Space @ 6 sf	30sf	48sf		114sf	36sf
Circulation @ 12 sf	60sf	96sf	156sf	228sf	72sf
Lockers:					
Men (1.6/participant)	147	228		552	186
Women (1.6/participant)	<u>79</u>	123		<u>297</u>	<u>100</u>
SUBTOTAL LOCKERS	226	350		850	286
Size: 18"x18"x60" @ 8 sf	1,805sf	2,803sf			2,291sf
At 75% (50% 1/2, 50% full)	1,354sf	2,102sf	3,398sf	5,098sf	1,718sf
Shower-Men	6	9	15	23	8
Shower-Women	<u>4</u>	<u>6</u>	<u>10</u>	<u>15</u>	<u>5</u>
SUBTOTAL SHOWERS	10^{-}	16		38	13
Shower Space @ 10 sf	102sf	159sf	257sf	385sf	130sf
Circulation @ 15 sf	153sf				
SUBTOTAL	1,849sf	2,913sf	4,694sf	7,032sf	2,361sf
Circulation /Sauna (20%)	370sf	583sf	939sf	1,406sf	472sf
ESTIMATED AREA	2,219sf	3,496sf	5,633sf	8,438sf	2,833sf

MODULE Lockers, Showers, Toilet **Overall Program Area** X-Small 2,400 SF All areas rounded up from calculation on 3,800 SF previous page. Small Medium 5,850 SF Increment area is estimated to be 3,000 SF Large 8,800 SF **Function / Description** Support space to facilitate changing before and after recreational activities. Half and full lockers are provided in each locker room. Showers are programmed to provide individual cubicles with dressing compartments.

Indirect Adjacencies ———

Building entrance

Gymnasium

Ceiling Height

Direct Adjacencies

Locker Rooms: 8'-0" minimum with 9'-0" preferred
Toilet Rooms: 8'-0" minimum with 9'-0" preferred

Shower/Drying: 8'-0" minimum

Material Definition

"Wet areas" are defined as rooms where direct contact at walls and floors with water is expected. This includes showers, drying areas, and toilet / grooming areas directly adjacent to the showers. Wet areas may be considered "humid" space.

Main corridor system and major activity components such as Fitness and

"Humid" is defined as above 60% relative humidity during typical room function over the entire period of normal hours of operation. Humid areas include locker rooms adjacent to showers and toilet rooms open to shower areas. Humidity varies by degree with "high" humidity occurring only in areas with continuous open water sources such as whirlpools, steam rooms, and swimming pool areas.

MATERIALS & FINISHES

Ceiling Finishes

Lockers, Showers, Toilet

General provisions: Highly light reflective and sound absorbent materials for locker areas. Provide 2'x 4' or 2'x 2' lay-in, wet-formed mineral fiber acoustical panels, on "humid" rated "T" shaped pre-finished metallic grid system. 15/16" or 9/16" wide "T" grids are preferred.

Face design: Non-directional fissured face designs are preferred to reduce installation cost and waste.

Edge design: "Flush" (square edges).

Impact resistance: standard durability rating.

Sound absorption for acoustical panels: No less than .55NRC for standard tiles, .70 for film or ceramic faced units.

Surface light reflectance: No less than .80. To improve lighting distribution within the room, use standard manufacturer's white color. Increase lighting output with off-white colors and/or panels with less than .80 light reflectance. Refer to lighting guidelines.

Locker Room - Humidity and mold resistance: Manufacturers offer both "plastic" film faced units, ceramic, and painted finishes for humidity and mold control. Most standard tiles are "non-sag" but not mold resistant. Units should be treated for low moisture absorption and mold formation. The most expensive (high humidity resistant) to least expensive (adequate humidity resistance) ceiling tile options are: 1)Aluminum grid with ceramic faced tiles, rated for wet (pools) conditions. Use with extreme peak load activities and constant humidity (100%) produced by existing, deficient air handling systems or constant shower activity. 2)Factory applied paint finish for steel grids rated for "humid" conditions with ceramic faced "high humidity" tiles or "high humidity," unfaced tiles. Recommended as best cost to benefit ratio. 3)Factory applied paint finish for steel grid with "humid" rated tiles. Lower initial cost offset by higher maintenance costs.

Fire resistance: Use only Class A rated materials as determined by Underwriters Laboratories (UL). Provide fire resistive system components where ceiling-floor assembly contributes to the fire protection of habitable space on floor(s) above the module.

Seismic requirements: Provide sway bracing for ceiling grids installed in seismic zones where local building codes would normally require additional protection from fall-out of panels and lighting.

Overstock: Request a minimum of 2% overstock for future replacement.

<u>Toilet and Shower</u> - Humidity and mold resistance: Provide veneer plaster finish on gypsum board or true plaster on mesh lath or plaster base (board) ceilings in shower rooms. Toilet rooms can use painted, suspended gypsum board ceilings. Where shower / toilet room combinations exist, use plaster finished ceilings of either type. Epoxy paint system typical throughout. Use dropped soffits or false gypsum board beams between toilet / shower areas and locker rooms. This will divide ceiling systems and provide a barrier, at the ceiling line, for odor and moisture confinement to the higher humidity areas.

MATERIALS & FINISHES

Wall Materials

Lockers, Showers, Toilet

Standard concrete masonry block or metal studs and gypsum board wall with ceramic tile finish.

Critical item: Provide a gypsum wall board product ("tile backer board") specifically designed for ceramic tile installation where wall tile will occur. Preferred product in shower areas is "cement" (gypsum-cement composition) board versus a paper faced tile backer product.

Ceramic tile: should be full height in showers, behind toilets and urinals (as per most health codes), and as a 4' high wainscot throughout the room(s). If initial cost outlay is a factor, "full" height ceramic tile may be defined as 6' - 8' above the finished floor at toilets, full height at showers and deleted elsewhere in order to save initial costs. Expect yearly maintenance to paint walls in wet areas however. Engineer shall balance durability, health code requirements, and maintenance against initial cost. Partial height ceramic tile or fiberglass panels in shower units are not recommended.

Water resistant gypsum board on steel studs may be used behind lockers and above ceramic tile wainscots. Epoxy paint system is recommended for optimum moisture and stain resistance. Freestanding column covers may be CMU or gypsum board on metal studs with ceramic tile wainscots to 4'-0."

Tile sizes and design: Typically use a 4" x 4" tile with "cushioned" edge. 1 ½ x 4" special trim pieces may be used to cap wainscots and ½" x 3 ½" tile strips may be added as accent stripes or bands within larger plain fields of tile. Consider creating a pattern of accent tiles or trims in complimentary colors to improve visual appearance. Avoid using darker colors as the main background color.

Color / Price: Ceramic tiles are priced by quality of manufacturer and by color. High quality tiles suitable for commercial / recreation use are manufactured by most nationally recognized U.S. manufacturers. All such companies use color codes 1 through 4 to denote color ranges and cost. Deeper, richer colors (3 and 4 class colors) are more expensive than more common white, off white and tan tiles (1 to 2 class colors). Hand painted or special texture tiles are their own class and must be priced separately. Balance tile color, need for accents or special shapes versus square footage when attempting to control the finish price of ceramic tile.

Use gloss finish tiles. Flat or "natural" finish wall tile are not recommended for wet use areas or toilet rooms. See below for tile floor finishes.

Special shapes: Use bullnose edge tiles at all outside corners. Use coved base tiles to match wall or floor system. Do not use wood base. Do not use rubber or vinyl base in wet areas.

MATERIALS & FINISHES

Wall Finishes

Lockers, Showers, Toilet

Ceramic wall tile: See notes above. (if existing, must be in good condition)

Standard concrete block: Water based or catalyzed polyester epoxy coating, semi-gloss. Apply a heavy acrylic block filler spray applied and backrolled to a pinhole free surface, and two epoxy finish coats of 5 to 6 mil Dry Film Thickness (DFT).

Gypsum board (when used): Water based epoxy, semi-gloss finish. Apply one coat compatible primer with two finish coats of 5 to 6 mils. DFT.

Ferrous metals (window and door frames): water based epoxy minimum. Apply one coat primer compatible with finish coat, and as barrier coat to factory primer. Two finish coats of 5 to 6 mils. DFT.

Where metals are used, specify corrosion resistant materials (aluminum or stainless steel). Where ferrous metals are unavoidable, specify factory enamel coated finishes. Field painting of any metallic items, with the exception of door or window frames, is strongly discouraged in this module.

Flooring

Locker rooms:

Substrates: Concrete.

Material: Solution dyed, level loop nylon carpet, with microbial treatment for resistance to mold and mildew.

Minimum specifications: 26 oz yarn weight, 45-60 oz finished weight with woven polypropylene backing. 5/64 gauge minimum. 10 year wear / abrasion warranty. Minimum pile height .166" to .1875"

Transitions: Metal edge transitions between thin set tile and carpet. Marble transitions to mud set tile floors.

Shower and toilet rooms:

Substrates: Where possible, provide a min. 4" thick, level concrete slab on grade over properly graded crushed stone sub-base, with a 10 mil polyethylene sheet vapor barrier located directly between the slab and the subbase.

Where floor is above grade, expect to apply a waterproof membrane over suspended concrete floors, prior to installing floor tile. Run membrane up walls minimum of 4" to form continuous barrier.

MATERIALS & FINISHES

Flooring (continued)

Lockers, Showers, Toilet

Shower and toilet rooms (continued):

Floor tolerances: No more than ¹/₄" in 10'-0" each direction, non-averaged for the full length of the floor. Follow flooring supplier's recommendations for filler and surface priming materials compatible with the anticipated mortars and adhesives

Material: Ceramic mosaic tile (in good condition if existing). Mud set with floors sloped to drain.

Type: 2" x 2" preferred.

Installation: Mud set recommended for new construction. Slope to drain in showers (located one per cubicle), keep flat in toilet rooms with slight depression around floor drains. Thin set latex - epoxy adhesive also acceptable for retrofit and floors above grade when used with waterproof membrane. Thin set latex- portland cement recommended for concrete subfloors only. Shower drains centrally located, one per cubicle. Overall floor slope should not exceed 1/2" in 10'-0".

Finish: Wet and dry skid resistance is the priority. Non-glazed mosaic tiles for floor use are typically provided with a roughened face texture. Verify texture of tile prior to approval. Natural (flat) finish tile may also be satisfactory. Minimum 1/8" thick.

Note: Flooring height in excess of 3/8" may require special transitions to avoid access conflicts with the Americans with Disabilities Act. See "ADA' comment below.

Floor Edge treatments: Use flooring manufacturers' coved base trim pieces at wall to floor joints. Avoid use of rubber base. Typically use marble thresholds to accommodate the difference in floor thicknesses between mud set tile floors and adjacent corridors or carpeted locker areas. Mud set tile floors are typically 11/4" finished thickness.

Other transitions: Metal edge trims may be used with thin-set tile to carpe transitions.

ADA provisions: Floor to floor transitions cannot exceed ½" in elevation difference at any transition. Larger stepped transitions must be ramped at nc greater than 1:10 (with handrails) to 1:20 (no handrails required)

SYSTEMS

Plumbing

Mechanical (HVAC)

Lockers, Showers, Toilet

Plan on grouping toilets and urinals. Whenever possible, provide back to back toilet walls dividing mens' and womens' facilities. Lavatories should be on a separate wall, but grouped together in one counter assembly. Locker rooms and wet areas should be separated by a full-height barrier.

Lavatories: See plumbing calculations. Recommend no less than two lavatories per toilet room in any size recreation facility.

Provide three lavatories minimum in continuous counter mounted application. Mount counter height to ADA maximum. Lever arm or wrist blade faucet handles.

Faucets: Lavatories and showers should all accommodate handicapped users with lever handle faucet controls. Automatic sensor activation preferred.

Toilets: See plumbing calculations to determine fixture count. No less than two toilets with two urinals or three toilets for women in any size facility. In Men's rooms provide a ratio of 1/3 urinals to toilets required. Automatic sensor flush preferred.

Floor drains: Expect to provide one drain per shower, and one floor drain per 250 square feet of floor area. Typically, one drain centered near toilet / urinal wall is adequate for unexpected overflows.

Mechanical heating, ventilation, and humidity control of the module is mandatory. Air conditioning needs are determined by ACE regional guidelines. Operating range: System able to maintain 70 - 78 degrees (F) year-round at 50% relative humidity or less.

Preliminary design criteria: (Adjust locally)

Summer: Outside temperature 78 deg. F, RH 50%.

Winter: 32 deg. F., RH 30%

Air changes wet areas: 20-30 air changes per hour, negative pressure. Air changes dry areas: (<50% RH) 8-12 air changes per hour, negative

pressure and 0.50 CFM/ft2.

Temperature controls: Independent to room, solid state and programmable. Ability to control peak and off-peak temperatures with 24 hour or one-touch setback programming recommended. Air movement / control: Fully ducted supply and return. Dedicated supplemental exhaust for toilets Passive or plenum return not recommended. Supply diffusers are to be adjustable metal grilles with four-way air movement and blade-type vanes. Return air grilles may be perforated plate or blade type. All diffusers to be pre-finished.

Ductwork shall be insulated sheet metal rectangular or circular duct routed adjacent to diffuser locations. Use flexible duct drops to diffusers. Natural (non-mechanically driven) ventilation: Not recommended.

SYSTEMS Lighting

Lockers, Showers, Toilet

Lighting Design:

Locker areas: 2 x 4 lay-in fluorescent lighting with prismatic lens. Priority is 40 to 50fc evenly distributed for seeing into lockers. Locate lighting before deciding on ceiling tile pattern.

Shower / toilet areas: Avoid centering light sources outside toilet stalls and directly behind patrons at mirrored surfaces. Take into account viewing angles from mirrors to light sources to avoid reflected glare. Use linear fluorescent tubes recessed into ceilings arranged as a a row of light sources along the back wall of toilets and directly over lavatory / grooming counters. Use prefabricated 1 x 4' linear fixtures or create custom length, 12"- 18" deep recessed light troughs within gypsum board or plaster ceilings. Conceal tubes with plastic or metallic finish "eggcrate" grille material (½" x ½" plastic grid.) Standard suspended ceiling edge trim can be used for supporting the grille. See also Toilet Room accessories below.

Shower stall lighting: Recessed P-lamp fluorescent fixtures with sealed lenses, rated for wet applications.

<u>Lighting Requirements:</u> Direct recessed fluorescent lighting in linear configurations are preferred. Supplement with round recessed fluorescent (PL lamp) down-lighting to overcome shadows from obstructions or to highlight certain areas. Low ceiling areas may require sealed downlighting to supplement light levels. (i.e. in shower compartments)

Lighting types: 2' x 4' recessed fluorescent with prismatic lens for general illumination. 1 x 4 or recessed lighting troughs with strip two tube fluorescent fixtures concealed by eggcrate grilles.

Locations: Lights are located based on the output of the fixture, distribution pattern of the fixture at the anticipated ceiling height, and desired overall light level (measured in footcandles) at the floor. See "Light level" guidelines. Recommendations of fixture spacing may be obtained from the selected fixture supplier or with the services of an illumination engineer.

For preliminary purposes, 2 tube 40w recessed 2 x 4 fixtures generally provide the required light level for the locker module. 1 fixture per 112 sq. feet. (8' x 14' area). Where continuous strips are placed use 2 x 4 4-tube (40w) recessed fixtures. Validate all fixture spacings with the manufacturer.

Lighting control: Use of occupancy sensors to activate lighting by motion detection, is recommended. Independent slide or toggle controls may also be used to control fixtures by groups. Grouping needs and/or preferences will be determined by circuit capacity.

No dimming required.

SYSTEMS

Light Level

Power

Technology / AV

Sound

Communications

Acoustical Performance

Windows & Doors

Miscellaneous

Lockers, Showers, Toilet

50 footcandles at the floor, minimum. Provide even distribution for locker areas.

Additional contribution of natural light via windows and/or skylighting is highly recommended.

GFIC protected outlets typical. Power requirements in this Technical Criteria manual are for CONUS installations. OCONUS power requirements should be addressed on a location by location basis.

Provide GFIC outlets at grooming counters.

Convenience power (general cleaning and service): 110v, 20 amp circuits. Spaced at 10'-0" o.c. minimum around the perimeter of the room in the locker base, and at freestanding columns located more than 10'-0" from the walls or the nearest outlet.

Ceiling mounted speaker for public announcements.

Sound system: Flush recessed ceiling speakers, 60 watt minimum output rating, capable of reproducing human speech, minimum.

None required.

None required.

No extraordinary sound reduction treatments are required. See individual material requirements.

Views into the space are prohibited. Aluminum or hollow metal frames are recommended. Tempered glass should be typical to the module.

ADA (American's with Disabilities Act) General provisions:

All toilet accessories or plumbing fixtures accessible to disable patrons shall have a clear approach of no less than 36" wide by 48" deep when measured from the edge of counter or wall face.

All accessible features designed for public use shall offer a clear approach of no less than 36" x 36", and be mounted at a height of no greater than 54" and no less than 48."

Priority shall be placed on effective use of equipment by disabled patrons and not based solely on minimum access guidelines published by the ADA.

EQUIPMENT

Equipment Criteria

Lockers, Showers, Toilet

Provide enameled steel or solid phenolic lockers in single or double tier. Sizes: Locker sizes for recreation use are typically 15" wide x 15" deep x 60" or 72" tall for single tier, and same dimensions at 36" tall in "Z" configuration for double tier. Where needed, recommend 18"- 24" deep lockers so that hangers will fit front to back. Contact manufacturers to verify clearances. Use heavy duty design with frames no less than .0598" thick enameled steel for metal lockers. 1/8" Wall thickness in phenolic lockers is minimum for heavy duty.

Layout: Provide single tier lockers with one shelf and three hooks. Mesh ventilation is optional. Unless long term storage of clothing is expected, ventilated lockers are not necessary, nor desired from a security standpoint. Lockers should be mounted on an 18" high permanent base of solid concrete or fully grouted concrete block. Upper shelves in 72" locker on an 18" base are difficult to reach from the floor for some patrons. See below for locker bench guidelines. Locker spacing is typically 6'-0" minimum to 8'-0" preferred between facing banks of lockers and benches. If floor mounted benches are used, locker spacing must increase to provide a minimum of 36" aisles between locker face and edge of bench. 48" aisle preferred. See notes below on advantages of cantilever mounted benches.

Provide a dropped gypsum board soffit over lockers along perimeter walls, or provide the manufacturers standard sloped top caps.

Hardware: Locking hardware for typical recreation use is padlock hasp with patron providing lock.

Shower / Drying Compartments: Showers will be individual compartments. Compartments may be fully tiled walls on standard construction, or fully tiled head walls with phenolic resin partitions mounted much like toilet partitions between shower stalls.

Sizes: Shower compartments shall be a minimum of a 3' x 3' shower, sloped to drain, with a 3'x 3' level floor drying compartment, divided by vinyl or cloth curtains. ADA requirements call for a 5'-0" wide x 3'-0" deep shower minimum for wheelchair access. It is typical to combine the -drying and showering space in an ADA accessible shower compartment. If desired, a small separate room with flush door may be provided.

Accessories: Make provisions for recessed soap dish and shelf for toiletries within shower compartment. In drying area, provide a partition mounted fold down bench. Provide a minimum of two robe hooks within drying area. Provide 2 - 60" high shower curtains, one in sufficient width to fill the space between drying and shower, and one between drying and public space. Provide a single, vertically mounted 36" long grab bar adjacent to spray head and faucets, on the side closest to the drying area. In ADA shower also provide a wall mounted fold down bench within the spray area of the shower head. Provide hand-held shower unit, capable of being mounted at 60" and 48" above finished floor. Provide an additional horizontally wall mounted 42" long grab bar on the side wall of the enclosure.

EQUIPMENT

Equipment Criteria (continued)

Lockers, Showers, Toilet

Toilet Room Accessories: The following represents typical accessories for shower / toilet / locker rooms. Assume 401 stainless steel construction with brushed finish unless otherwise noted:

Toilet partitions: Enameled steel, or solid phenolic floor mounted partitions (in good condition with operable doors if existing). Partitions may be ceiling hung for easier floor maintenance. Ceiling mount uses vertical rods to hang partitions, but not recommended to use rods alone when attachment point is more than 2'-0" above the top of partition. Taller ceiling plenums require a steel subframe engineered by partition manufacturer to reduce partition sway to a minimum.

Shower partitions: Solid Phenolic partitions are recommended for shower and drying cubicle dividers. See space planning guide for arrangement of shower and drying cubicle. Stainless steel hardware and partition trim only.

Dispensers:

Toilet paper dispensers: Stainless steel, back to back partition mounted double roll dispensers. Double roll surface mounted units for walls where recessing units is impractical. Semi-recessed or recessed dispenser units whenever possible.

Sanitary Napkin dispenser: Separate wall mounted unit outside toilet partition in central location. In the stall, provide a thru partition napkin disposal unit. Dispenser may be coin operated at Engineer's discretion.

Paper towel dispenser: Minimum 200 count C-fold unit. Surface mounted or semi-recessed. Provide 1 dispenser per three lavatories.

Soap dispensers: Under-counter mounted units with above counter pump spouts, preferred. Provide 1 per lavatory. If wall mounted, provide stainless steel housing for units, mechanically fastened to wall. No adhesive mounted applications. If possible, hold mirrors up above counter backsplash to allow mounting of dispenser without drilling of mirror. Verify that maximum reach from counter edge to dispenser does not exceed ADA requirements.

Waste disposal unit: Minimum 5 gallon capacity, semi-recessed. With key operated removable bin. Provide one unit per towel dispenser. OR: Combination paper towel Provide 1 combination unit per 3 lavatories. Add units beyond Dispenser / waste disposal minimum count to overcome remote location from lavatories or Unit for added convenience.

Electric hand dryers: Wall mounted, 110v sensor operated unit with both hand and face directional air distribution. Provide 1 dryer per 3 lavatories.

Grab bars: 1- 1/4" min. diameter, stainless steel grab bars in lengths noted for each application. Provide with concealed fasteners and decorative mounting flanges. Provide bars with knurled grip area etched into the length of the bar.

EQUIPMENT

Equipment Criteria (continued)

Lockers, Showers, Toilet

Mirrors: Provide tempered mirror glass or polished metal mirrors. Recommend using counter to ceiling mirror equal to the width of lavatory and/or individual mirrors spaced evenly at grooming counters.

Architectural woodwork:

Solid surface counters: Solid surface lavatory and grooming counters with 4" high solid surface backsplash are preferred for durability and color selection. "Solid surface" refers to polymer fabrication of monolithic solid thermoset plastic. Common trade names are "Corian" or "Fountainhead." Available in a variety of patterns and colors. Counters are factory formed and all components are shipped precut to the site.

Use steel subframe to construct a cantilevered counter. This allows ADA access to lavatories, faucets, and soap dispensers without separate "handicapped" lavatory. Lavatory counter depth cannot exceed 24".

Grooming shelf set apart from lavatories is strongly recommended. The shelves are typically 18" deep with backsplash. Coordinate placement of 1 electrical outlet per 4' of shelf with no less than 2 per grooming area. Provide a mirrored wall surface above the counter. Shelf may be mounted as high as 48."

Mount stainless steel or porcelain sinks under counter or flush with counter using stainless steel mounting trim. Consider solid surface sinks adhesively bonded to countertop.

ADA provisions: Provide a minimum of 48"x 48" clear floor area in front at least one lavatory for wheelchair access.

Locker benches: Every locker bank requires a continuous 17 ½" high bench parallel to the locker faces. (Note: 18" high locker base allows for door to swing out over 17 ½" high bench) Bench width is to be a minimum of 18". Options for mounting are; floor mounted on steel pipe columns with pipe flanges bolted to the floor, or cantilever mounted to locker base assembly. Bench construction for recreation use is recommended as solid maple or oak bonded in "butcher block" style 11/2" - 2" thick in cross section. Natural polyurethane finish. Cantilever benches are preferred; mounted with galvanized steel tube brackets cast into the locker base. 4'-0" o.c. bracket spacing is typical. A cantilevered bench allows for more free area between lockers and ADA access. A bench is also used as a step for reach into taller lockers.

MODULE	Sauna			
Overall Program Area	Small	SF areas for Saunas are included within the Lockers, Shower, Toilet area in the previous section.		
Function / Description	General provisions: A sauna is a supplemental space within a larger recreational module. Guidelines for this module assume the presence of changing rooms and construction quality similar to the gymnasium module. Sauna rooms can take the form of: 1) a custom built space of any size with heating equipment and finishes designed specifically for that space, 2) a prefabricated assembly shipped broken down to the site and reassembled in place with all heating, lighting, controls, and accessories provided, or 3) a hybrid of a field constructed enclosure, utilities and controls, and specialized room finishes, purchased separately and installed on site. The guidelines provided herein are suitable for building any of the three types listed above. Sauna kits to be in good condition.			
Direct Adjacencies —	Locker Room, Shower, To	ilet		
Indirect Adjacencies —	Main Corridor System			
Ceiling Height	8'-0" preferred. Higher ceilings will require too low for comfortable se	e increase in heat output. Lower ceilings are ating on upper bench tier.		
Material Definition	Plaster veneer over gypsur	m / cement composition board.		
Ceiling Finishes	Moderately light reflective	e, smooth trowel finish.		

MATERIALS & FINISHES

Wall Materials

Sauna

Concrete masonry units (CMU). Moisture controlled Type 1, normal weight, hollow core.

Size and Face design: Plain 8 (high) x 16 (wide) x 8 (deep) units or "scored" with a vertical 3/8" false joint to appear as an 8 x 8 x 8 unit when placed in running or stack bond.

Compressive strength: 1900 psi minimum.

Bond: Running bond for load or non-load bearing partitions. Fully tooled joints.

Face finish: Manufacturer's standard finish

Special shapes: Use bullnose corner units at all outside corners.

Wall Finishes

The standard concrete block will have fully tooled joints but remain otherwise unfinished and concealed behind the sauna room interior veneer.

Sauna interior finish: ½" thick x nominal 4" wide natural finish redwood tongue and groove boards.

The veneer wall system should be placed over a 3 mil continuous sheet of polyethylene film to act as a vapor barrier and seal the room. The vapor barrier is attached to 1 ½" thick treated wood furring strips mounted to the block walls at 24"o.c. To insulate the sauna partition and reduce heat loss, in-fill the space between the furring strips with 1 ½" thick extruded polystyrene rigid insulation.

Ferrous metals: Do not use any ferrous metal products within the sauna interior. It is recommended that all fasteners and hardware to be stainless steel. Exceptions are noted below.

Doors and frames: Provide an aluminum entrance frame with an insulated aluminum door (i.e. as if for exterior use) with an insulated glass insert. If privacy is of greatest concern, a small insulated glass vision panel is still recommended to prevent accidental collision while entering or leaving the sauna. Preferred is a full insulated glass aluminum door in an aluminum frame. Do not use single pane glass in sauna doors.

Door handles shall be prefinished acrylic plastic. Critical item. Powder coated factory paint finish.

MATERIALS & FINISHES

Flooring

Sauna

Substrates: 1 ½" recessed cast in place concrete slab is preferred. Wood subfloor is possible but not recommended without use of a waterproof membrane and cement board protection layer beneath sauna floor finish system. Note that water will be present in small amounts during normal function of the space.

Machine milled and formed $\frac{3}{4}$ " thick minimum, solid redwood strip flooring mounted on cross aligned $\frac{3}{4}$ " thick redwood sleepers. (Overall floor thickness of 1 $\frac{1}{2}$."). Floor boards are visually run in a single direction in an open slat design with $\frac{1}{4}$ " gaps between boards. Floor loose laid in 2' x 2' modules for easy removal for periodic maintenance / cleaning of the concrete substrate.

SYSTEMS

Plumbing

Mechanical (HVAC)

Lighting

Light Level

Sauna

No plumbing provisions for this module.

Outside mechanical heating and cooling is not applicable. Air movement is accomplished via passive ceiling and floor mounted vents, typically 24 square inches total for every 100 plan square feet, assuming 8'-0" ceiling height.

4 air changes per hour.

Temperature controls: Independent to room - Range 170 to 180 degrees F.

Relative humidity 5%. Controls accessible to staff only. Provide a panic button in sauna.

Recessed downlighting, sealed and lens units rated for wet conditions. Gasketed trim ring where fixture flange penetrates ceiling.

Wall switch on exterior of room, no dimming capability.

30 foot-candles at the floor.

SYSTEMS

Power

Technology / AV

Sound

Communications

Acoustical Performance

Windows & Doors

Equipment Criteria

Sauna

220/240 single phase power necessary for heating unit. 110v circuit for room lighting. Power requirements in this Technical Criteria manual are for CONUS installations. OCONUS power requirements should be addressed on a location by location basis.

None required.

None required.

None required.

Seating benches: Expect to provide continuous 24" deep x 18" high, two tier bench seating constructed from 2 x 4 solid redwood boards. Benches are generally arranged along two walls contiguous with one another. Redwood grade for benches is premium grade. Fully sanded and sealed. All edges of every board in the bench construction shall be eased and sanded smooth.

Sauna dry heat system: Estimate 1.7 KW per 100 square feet of sauna. Coordinate power with electrical provisions for the space. Factory wired timer for the heating unit is typically provided. Thermostatic and / or heat setting control is usually an option purchased with the equipment. Controls remote from heating unit housing will need to be coordinated in advance and wired by others during construction.

Provide a unit with a grated 30# or 60# (greater heat storage capacity) lava rock compartment

Sauna accessories: Provide water tub and ladle. Room temperature and humidity gauge, wall mounted. Optional towel or robe pegs, wall mounted.

ADA (American's with Disabilities Act) General provisions: All accessible features designed for public use shall offer a clear approach of no less than 36" x 36", and be mounted at a height of no greater than 54" and no less than 48."

Provide level transitions between adjacent floor and sauna. Provide one clear floor space of $48"\ x\ 48"$ directly in front of a bench for wheelchair accessible seating. Solid acrylic grab bars at handicap seating area are optional.

Priority shall be placed on effective use of equipment by disabled patrons and not based solely on minimum access guidelines published by the ADA.

MODULE Miscellaneous Areas - Corridors Overall Program Area X-Small _____ Corridor area provided in the Miscellaneous square foot allocation. Small Medium -Large **Function / Description** General building circulation serves to connect spaces visually as well as physically. Corridors should be broken into two main functions, central public axis and service corridors. **Direct Adjacencies** Central axis corridors for public use should connect to as many main modules as possible. Multiple axis corridors may be used to accomplish this. Service corridors are isolated by doors for security and privacy when possible, and connect loading and off-loading entries to mechanical rooms and main corridors. **Indirect Adjacencies** -**Ceiling Height** Public corridors:10'-0" and above with minimum 9'-0" to lowest ceiling element. Service corridors: No less than 9'0" Ceiling heights serve to identify main public corridors and may vary based on the width and visual axis desired within the facility. Gymnasium and Fitness modules utilize high ceilings and connecting corridors should take advantage of vertical views by use of tall interior window systems when possible. Generally, lobby and main corridor ceiling heights should match, with lower ceilings reserved for service corridors and corridors leading to auxiliary spaces serving the main module. If the corridor ceiling must be lower than the Lobby, then the transition between the lobby and corridor needs to be designed so that it is apparent that the corridor is the primary circulation path. No secondary corridor should be less than 9'-0" high. **Material Definition** N/A **Ceiling Finishes** Highly reflective and sound absorbent materials. Provide 2'x 2' or 2'x 4' lay-in, wet formed mineral fiber acoustical panels, on standard "T" shaped pre-finished metallic grid system. 15/16" or 9/16" wide "T" grids are base selection criteria. See optional considerations below.

Ceiling design: Public corridors are to follow level of finish and design utilized in the Lobby module. This includes continuation of dropped soffits or false beam patterns utilized in the Lobby module. Refer to design considerations in that module for more details. Service corridors out of public view and secondary corridors not visually connected to

main corridor ceilings may reduce finishes to minimums.

MATERIALS & FINISHES

Ceiling Finishes (continued)

Wall Materials

Wall Finishes

Flooring

Miscellaneous Areas - Corridors

Material Specification & Lighting: Refer to Lobby module guidelines.

Special considerations: Main corridors will serve as routes for hidden utilities. Use accessible ceilings as much as possible. Avoid large areas of dropped gypsum ceilings as accents in corridors unless dedicate accessible paths for utility routing can be accommodated. Use of gypsum board decorative ceilings should take into account HVAC and plumbing valve, damper and control location above hard ceilings. These will require access doors to service these devices that will detract from the visual impact of the space.

Where service corridors will be opened to the outside air on a regular basis, use high humidity rated acoustical tiles.

Concrete masonry units (CMU) are preferred. Refer to Lobby module for sizes and types in order for corridors to be compatible with level of finish. When gypsum board is used as a wall finish in corridors, it is preferred that two layers be applied to all walls for added impact resistance.

Follow the lobby module. Water based epoxy paints systems are mandatory for durability.

Public corridors can extend the Lobby module finishes. Hard durable surfaces are preferred with carpeting to be restricted to secondary public corridors not subject to direct outdoor or wet area traffic. Carpet over wood substrates on above grade floors shall incorporate a dense, sound deadening padding no less than ½" thick.

Service corridors: resilient tile preferred with clear or tinted sealed concrete as a minimum.

Modular floor mats are recommended at all outside entries leading to carpeted or resilient tile corridors. Avoid floor mats at loading and off-loading entries where heavy wheeled traffic is typical. If conflict with service access and carpeted corridors occurs, use floor mats with heavy duty load rating with lift out option for cleaning.

Substrates: Concrete on grade or suspended concrete preferred for durability and sound deadening characteristics. Properly prepared wood substrates to use tongue and groove plywood panels, mechanically fastened and glued to supporting structure.

SYSTEMS

Plumbing

Mechanical (HVAC)

Miscellaneous Areas - Corridors

A drinking fountain may be required along main corridors. When required, provide one electrically cooled two station unit, designed for

Outside air is not recommended. Utilize main corridors as ducted or plenum return air paths for connected modules. Direct supply in main public corridors is often not needed when corridors are open to a majority of modules. Service corridors may use ducted supply and return air systems.

Entries and entry vestibules: Supplement vestibule heat with recessed wall cabinets at floor line.

Operating range: System able to maintain 68 to 76 degrees (F) year round at 50% relative humidity.

8-12 air changes per hour pending transfer of air from other modules. Direct supply to follow same criteria as make-up air.

Temperature controls: None to thermostatically controlled VAV supply to make up air.

Lighting

Main corridors to be combination of 1) recessed fluorescent down lighting (PL lamps) with pendant hung decorative lighting or pendant hung direct / indirect fluorescent fixtures. Decorative wall sconces are recommended to accent functions or highlight entry points to modules.

Secondary and service corridors to be lay-in 2' x 2' or 2' x 4' 4 tube (40W) fluorescent lay-in recessed or flush recessed fixtures in gypsum board ceilings.

Light Level

40 to 50 foot candles in Main Corridors 30 to 40 foot candles in secondary public corridors 50 foot candles in Service corridors

Power

220/240v single phase power for lighting.

240v single phase for cabinet unit heaters.

Convenience 110v outlets every 20'-0" staggered along both sides of corridors.

Technology / AV

Expect main conduit routing and data cable routing to take place in corridor ceilings.

SYSTEMS	Miscellaneous Areas - Corridors
Sound	Ceiling mounted voice quality only speakers every 24'-0" o.c. in Main Corridors for paging system, if used. Option to upgrade to music quality speakers if broadcasting of CD quality source is expected.
Communications	
Acoustical Performance	
Windows & Doors	
That is a 2 only	
Equipment Criteria	

MODULE	Miscellaneous Areas - Building Support			
Overall Program Area	Small	Building Support area provided in the Miscellaneous square foot allocation		
Function / Description		Support areas include storage areas and communications rooms or closets.		
Direct Adjacencies —	Mechanical spaces benefit runs, however adjacency to of the equipment. Data and telephone communifor main entry points to the phone network are preferred.	ort single or multiple activity modules. from central locations to minimize ductwork to the outside is preferred for access and service unication closets relate to mechanical spaces te facility only. Distribution points for data and ted along corridors adjacent to the rooms they closets within recreational activity modules		
Indirect Adjacencies ——				
Ceiling Height	Mechanical rooms: 10'-0" Storage and communicatio heights.	minimum ons closets: Open to structure, with varying		
Material Definition	N/A			
Ceiling Finishes	None. Open structure may be pair recommended.	nted to increase light levels, but not		

MATERIALS & FINISHES	Miscellaneous Areas - Building Support
Wall Materials	Concrete masonry units (CMU) are preferred in mechanical rooms and storage rooms where high abuse is expected.
	Storage for non-recreation uses can be gypsum board over metal studs. Rubber base preferred, but not mandatory.
Wall Finishes	Water based epoxy paint for both CMU and gypsum board applications.
Flooring	Sealed concrete. Office area closets in non-recreational areas may be carpet to match main area carpet. If wood substrates are used, resilient tile is preferred.
Plumbing	N/A

SYSTEMS Mechanical (HVAC)

Miscellaneous Areas - Building Support

Direct supply is needed for data closets when switches and routers are present.

Operating range: System able to maintain 68 to 76 degrees (F) year round at 50% relative humidity.

Data closets: Prefer network equipment to be at 56 - 65 degrees (F) year round at 50% or less relative humidity. Circulation from corridor must be adequate to maintain minimum temperature requirements, or supplemental conditioned supply air must be available year round

8-12 air changes per hour pending transfer of air from corridors and rooms. Direct supply to follow same criteria as make-up air.

Temperature controls: None. Heat rise sensor and alarm recommended for sensitive electronic equipment closets.

Lighting

Chain hung, 1' x 4' open tube fluorescent lighting fixtures. If gypsum ceiling used, surface mounted full enclosure 1' x 4' fluorescent fixtures

Lighting locations in mechanical rooms determined by location of HVAC equipment. Locate lights to maximum effect for service of equipment and safe circulation through the room.

Light Level

30 foot candles at floor minimum, 40 foot candles preferred.

Power

220/240v single phase power for lighting.

Convenience 110v dedicated outlets for routing equipment in data closets.

Convenience 110v outlets periodically throughout mechanical space for use with general tool or cleanup use. One dedicated 110v outlet at near entry to room for control PC to be used with HVAC temperature controls system for new equipment.

Technology / AV

One (1) available CAT5 data port and telephone line for HVAC controls service.

Sound

N/A

Communications

SYSTEMS

Acoustical Performance

Windows & Doors

Equipment Criteria

Miscellaneous Areas - Building Support

Walls shall be rated to 55STC or better for mechanical spaces adjacent to office, conference, or seating area functions. Walls shall be full height and sealed at top against noise transfer.

All HVAC equipment shall be sound isolated with spring mounted and acoustically designed support points. Concrete equipment pads shall be provided for all equipment, in particular where mechanical rooms on suspended slabs and over habitable space.

Louver panels at bottom of doors to data closets with powered networking equipment.

MODULE Miscellaneous Areas - Offices Overall Program Area Office areas provided in the Miscellaneous square foot allocation. Small Medium -Large **Function / Description** Administration space for facility director or staff. This function usually contains the following: 1) Director's Office 2) Staff Office(s) 3) Conference Room 4) Work Room Area **Direct Adjacencies** Offices may be decentralized and directly connected to the modules they serve or centralized with individual offices connected to an open office core for shared administrative services. When centralized, offices should be located near the main entry and accessed from the main circulation path. When decentralized, it is beneficial to locate offices along main circulation path(s). **Indirect Adjacencies** -**Ceiling Height** 9'-0" minimum, with 9'-6" preferred. **Material Definition** N/A **Ceiling Finishes** Highly reflective and sound absorbent materials. Provide 2'x 2' or 2'x 4'lay-in, wet formed mineral fiber acoustical panels, on standard "T" shaped pre-finished metallic grid system. 15/16" or 9/16" wide "T" grids are base selection criteria. See optional considerations below. Avoid solid gypsum board ceilings. Perimeter soffits are acceptable. Maintain access above ceilings for HVAC maintenance and future data network upgrades. **Face design:** Random fissured, non-directional face design preferred. Main offices or conference / office space may benefit from continuing a textured or decorative face tile from centralized office entry points in an office suite. **Edge design:** "Flush" (square edged) or "tegular" (routed edges) **Impact resistance:** Standard durability rating.

Sound absorption: No less than .55 NRC

Surface light reflectance: No less than .80

Humidity: No special protections.

MATERIALS & FINISHES

Ceiling Finishes (continued)

Wall Materials

Wall Finishes

Flooring

Miscellaneous Areas - Offices

Fire resistance: Only Class A materials (UL rating). Provide fire resistive ceiling system where floor-ceiling assembly contributes to the fire protection of the roof-floor of the module.

Material specifications and lighting: 2' x 4' lay-in recessed fluorescent fixtures with prismatic lenses, mounted in the ceiling grid are minimum. 2' x 2' recessed fluorescent fixtures are preferred. Flush edge lens frames are minimum; chamfered lens frames preferred.

Add recessed fluorescent downlighting for accent effects in main office or waiting spaces to office suites.

Lay-in lighting fixtures are sold with integral HVAC diffusers in a slot arrangement on the fixture frame. These fixture types do not provide a good distribution of air and tend to increased air noise.

Seismic requirements: Provide sway bracing for ceiling grids in seismic zones where local building codes would normally require such protection.

Gypsum board over metal studs is minimum and preferred material. When gypsum board is used as a wall finish in internal suite corridors, it is preferred that two layers be applied to all walls for added impact resistance.

Acrylic latex paint with "eggshell" finish is minimum. In offices off of more active modules, water based epoxy paints systems are preferred for durability, but sheen control is limited with epoxies to semi-gloss. In office suites and waiting areas, the durability of epoxies may be weighed against the less institutional look of eggshell latexes.

Carpet is principle material for centralized office suites. Roll goods preferred, the minimum is commercial, solution dyed nylon in 26 oz yarn weight, 45 oz total finished weight. Provide carpet with static control. Increasing total finished weight closer to 60oz is preferred. Same level of durability as designed into Lobby or corridors if carpet is used.

Decentralized offices must consider continuing the predominant floor finish in their module. Guideline is to maintain a equal level of durability as the module flooring. Wet areas require tile flooring or sealed concrete as a minimum.

Storage, and data closets serving office suites are resilient tile preferred with clear or tinted sealed concrete as a minimum. Janitor closets shall be sealed concrete minimum and preferred.

SYSTEMS Plumbing

Mechanical (HVAC)

Miscellaneous Areas - Offices

None usually required. In centralized office suites, one hand sink is typical, located in a shared work space or room.

Outside air is not recommended. Air movement should be controlled with ducted supply to each office. Variable air volume (VAV) devices are recommended for thermostatically controlling individual offices. Office temperature controls may be centralized as a minimum, with individual controls preferred.

Utilize main corridors as ducted or plenum return air paths for office suites

Provide acoustically lined ducts when routing ducts across several grouped offices.

For sound transfer control between offices, always maintain at least two elbow turns in hard ductwork prior to connecting the main duct run to a flex duct to ceiling diffusers.

Operating range: System able to maintain 68 to 76 degrees (F) year round at 50% relative humidity.

8-10 air changes per hour

Temperature controls: None to thermostatically controlled VAV supply.

Lighting

Lay-in 2' x 2' or 2' x 4' 4 tube (40W) fluorescent lay-in recessed, with "cool white" lamping preferred. Provide switch to each office.

Light Level

40 to 50 foot candles.

Power

Convenience 110v outlets, one per wall minimum, with 2 located along desk wall.

Technology / AV

Data and telephone cable routed to adjacent to convenience outlets, on desk wall if identifiable at time of design. See furniture considerations below.

Competitive sports or training may require the use of video taping to gauge performance. Offices for fitness directors may benefit from a TV and VCR bracket mounted 72' a.f.f. for the purpose of reviewing video tapes.

SYSTEMS

Sound

Acoustical Performance

Windows & Doors

Equipment Criteria

Miscellaneous Areas - Offices

None. Avoid extending paging systems into offices or office suites.

Office walls should maintain an STC (sound transmission class) rating of 45 or better to ensure a minimum level of privacy. This can be achieved typically with a single layer of gypsum board on each side of a metal stud wall extended fully to floor-roof deck above.

If less sound transfer is of primary concern, add 2" thick sound batting to dividing walls in sensitive offices. One additional layer of gypsum board on the room side one is seeking to protect will increase the STC rating to 50-53. Monitor and seal all tops of walls, duct, and pipe penetrations through walls. Sound insulate toilet and roof drain piping in walls shared with offices.

Furniture Considerations: It is preferred that offices are designed in anticipation of a particular grouping of furniture. A standard 2'-6" x 5'0" writing counter or desk with adjacent 4'-0" counter for computer use. One 6' high x 4' wide book case or cases. One desk chair and one visitor chair. Once satisfied with a basic arrangement, then power and data ports can be located with greater confidence.

MODULE	Miscellaneous Areas - Laundry / Issue				
Overall Program Area	X-Small Laundry / Issue area provided in the Small Miscellaneous square foot allocation. Large Laundry / Issue area provided in the Miscellaneous square foot allocation.				
Function / Description	Cleaning and distribution of linens and/or sports gear used in modules.				
Direct Adjacencies Indirect Adjacencies	Laundry may need to be in close proximity to the Control Area depending upon staffing levels and anticipated usage. Laundry / issue rooms should be located central to most modules with preference given to the fitness module. A connection to a service corridor and one outside wall is also preferred. Commercial dryers are preferred with a vertical exhaust duct through the roof. Alternatively, provide a short exhaust duct to an outside wall.				
Ceiling Height	9'-0" minimum, with 10'-0" preferred.				
Ceiling Finishes	Highly reflective and moisture resistant materials. Provide 2'x 2' or 2'x 4'lay-in, wet formed mineral fiber acoustical panels, on phosphatized or otherwise humidity controlled "T" shaped pre-finished metallic grid system. 15/16" or 9/16" wide "T" grids are base selection criteria. Face design: Random fissured, non-directional face ceramic frit (film				
	faced tile) is minimum and preferred. Edge design: "Flush" (square) edge. Avoid textured surface tiles or expending resources on decorative tiles. Laundry issue rooms will require flat, cleanable tiles to maintain their appearance.				
	Impact resistance: Standard durability rating. High impact resistance preferred.				
	Sound absorption: No less than .55 NRC				
	Surface light reflectance: No less than .80				
	Humidity: Non-sag, humidity controlled tiles.				
	Fire resistance: Only Class A materials (UL rating). Provide fire resistive ceiling system where floor-ceiling assembly contributes to the fire protection of the roof-floor, of the module				

MATERIALS & FINISHES

Ceiling Finishes (continued)

Miscellaneous Areas - Laundry / Issue

Material specifications and lighting: 2' x 4' lay-in recessed fluorescent fixtures with prismatic lenses, mounted in the ceiling grid are minimum. Fixture to be rated for damp conditions.

Seismic requirements: Provide sway bracing for ceiling grids in seismic zones where local building codes would normally require such protections.

Wall Materials

Concrete masonry units (CMU). Moisture controlled Type 1 hollow core units are recommended. Standard block face.

Size and face design: Plain 8 (high) x 16 (wide) by 8" (deep) units.

Compressive strength: 1900 psi minimum.

Bond: Running bond.

Special shapes: Use bullnose units at all outside corners

Wall Finishes

Water based epoxy paints are minimum for durability.

Ferrous metals: (Window and door frames) Water based epoxy.

Flooring

Sealed concrete floors preferred. Provide 4" raised concrete platforms for washers and dryers.

Plumbing

Provide one exposed hot and cold water manifold with taps at each machine, to serve washing machines. Provide one individual floor drain for each machine, located to the back right corner. Manifold and drains should fall within a 2'0" alleyway created behind any bank of machines. Pipe manifold shall be 36" high at individual taps. Insulate all cold and hot water lines.

SYSTEMS Mechanical (HVAC)

Miscellaneous Areas - Laundry / Issue

Outside air is not recommend. Air movement should be controlled with ducted supply and make up air balanced against dryer exhaust. Variable air volume (VAV) devices are recommended for thermostatic control. Ducted return air.

Dryer exhaust ducts will impact headroom clearances if dryers are not located directly on an outside wall. Size dryer equipment as early in the design process as possible. Locate or group dryer ducting and plan for an exhaust route to the outside when locating space.

If gas operated dryers are used, path for vertical flues shall be provided.

Operating range: System able to maintain 68 to 76 degrees (F) year round at 50% relative humidity.

10-12 air changes per hour. Gauge waste heat from commercial washers and dryers.

Temperature controls: Thermostatically controlled VAV supply.

Lighting

Lay-in 2' x 2' or 2' x 4' 4 tube (40W) fluorescent lay-in recessed, with "cool white" lamping preferred. Damp rated fixtures. Provide wall switch. Locate at least one fixture close to pass through counter. See architectural woodwork considerations below.

When wall cabinets are used over folding/sorting counters, provide under cabinet lighting consisting of 6" x 24 to 48" long, 1" high fluorescent units with opal or prismatic lenses, switched to the main room lighting.

Light Level

40 to 50 foot candles.

Power

Convenience 110v outlets, one per 20' of wall minimum.

Dryer power considerations can vary with equipment selected. Minimum plan for 30 to 60 amp 220/240v three prong twist connect outlets, one per dryer. Dryer and washer banks require one main disconnect per equipment bank, accessible from within the room and not located behind any equipment.

Electric operation of dryers is preferred, but accommodation for gas heat operated commercial dryers may be considered, but not recommended.

Technology / AV

One data and telephone port adjacent to convenience outlet at issue counter.

SYSTEMS

Sound

Miscellaneous Areas - Laundry / Issue

None. Avoid extending paging systems into Laundry rooms.

Communications

Acoustical Performance

Windows & Doors

Equipment Criteria

Guard against sound transfer to adjacent modules with full height walls minimum.

As a planning guideline, provide one 30 lb commercial washer and dryer for every 10,000 square feet of Fitness module for small facilities. Once 3 washers and dryers are reached, add one additional washer and dryer for every 20,000 additional square feet. Preferred: for every two washers provide three dryers. Increase capacity to 50lb and 80lb washers/dryers for medium to large facilities respectively.

Architectural woodwork: Each laundry / issue space should be provided with a roll-up counter door, minimum 6'-0" wide with balanced manual operation minimum, electrically operated preferred. Counters serving the patrons shall be ADA compliant at no higher than 2'-10" and be at least 3'-0" deep.

Provide below counter cabinets and open cube shelving for storage of sports equipment and/or linens. Wall cabinets can be used but not preferred. Typical open linen cube is a two tier stacked arrangement 18" wide by 17" high by 18" deep typically located under a countertop for folding/sorting. Two cubes stacked for linens should be available for each hour of operation, minimum, up to a maximum of 24 cubes total for large facilities.

Provide 6'-0" feet of 2'-10" high, by 24" deep closed cabinetry with a countertop for storage of loose sports equipment. Wall cabinets may also be used. Provide at least two drawers for item identification labeling tools and supplies. If wall cabinets are used, provide under cabinet lighting for counter.

Provide 12'-0" minimum of folding and equipment handling counter adjacent to the issue counter. As much folding and sorting counter as can be effectively utilized within the space is preferred.

Both counter and shelving shall be .050 heavy duty plastic laminate with melamine cabinet interiors.

Provide alleys between cabinets no less than 48" wide for single bank of cabinets for ADA use, and 60" for double banks of cabinets opposite one another. Provide adequate room within the space for a 60" diameter turnaround by disabled staff, equipped with wheelchairs.



DEMAND-BASED STUDY OF CRITICAL FUNCTION MODULES

A study of utilization for each CFM in the Physical Fitness Facility was conducted using National Sporting Goods Association (NSGA) statistics for indoor activities. The NSGA surveys sports participation annually for 64 indoor and outdoor activities. The results are published as Series I and Series II. For purpose of this study, data for activities deemed to be appropriate for programming in a typical PFC were extrapolated from both Series I and II Publications and include:

CFM Component	NSGA Activity	NIRSA Recommended Area
Exercise Module	Aerobic Exercising	50SF per participant
Exercise Module	Calisthenics	50SF per participant
Exercise Module	Step Aerobics	50SF per participant
Exercise Module	Martial Arts	125SF per participant
Exercise Module	Kick Boxing	125SF per participant
Gymnasium Module	Basketball	14 participants (10 + 4 rotating)
Gymnasium Module	Volleyball	16 participants (12 + 4 rotating)
Fitness Module	Exercising w. Equipment	50SF per equipment station
		65SF per free weight station
Structured Activity	Racquetball	4 participants per 800SF Court
Indoor Track	Exercise Walking	1 runner per 20 lineal feet
Indoor Track	Running / Jogging	1 runner 20 lineal feet

Assuming that the recreational interests of the AD population are similar to civilians, NSGA participation data is utilized to test each building component for meeting peak demand. Peak contact times vary from activity to activity. For instance, classroom activities require an instructor and participants meeting at a specific time. In a typical day with 16 hours of operation, it is feasible to program classes for two hours in the morning, two hours over lunch, and four hours in the evening. On weekends peak times are expected to be mid morning to late afternoon. Thus, the analysis tests a projected group of participants against a peak window of time that is approximately 55% of the total hours of operation per week.

Individual activities, such as exercising with equipment, have longer peak times (90% of hours of operation). While busiest peak times are anticipated to be early morning, users will access Fitness at all times of the day and evening.

The Gymnasium component is anticipated to have the greatest difficulty meeting peak demand because this activity requires a large number of users coming together simultaneously. Team activities are usually scheduled at lunchtime and evening. The number of players is small relative to the amount of space required for court play. Some court activities will have to be conducted in later hours of daily operation or throughout the weekend. Peak gymnasium hours are anticipated to be approximately 60% of the total hours of operation.

The Indoor Track is expected to have a shortfall of peak time. However, many participants will satisfy their needs by running or walking outdoors. Peak time for the indoor track is projected to be 80% of operating hours. As with fitness, individual participants can access the track at all hours of the day or evening.

The tables on the following pages show a total of available *contact hours* for each activity. A contact hour is defined as one user occupying one station for one hour. For example, if an Aerobics Room is 1,200 SF and NIRSA safety standards require 50SF of space for each occupant, than there are 24 *stations* in the room. For each one hour class there are 24 available contact hours. If the facility is operational for 100 hours a week, there are 2,400 available contact hours per week. The objective of this study is to compare the total peak contact hours for each CFM to a reasonable projection of participants to determine if each CFM is sized sufficiently to meet peak demand. Standard hours of operation are estimated to be 100 per week based on the following schedule:

PFC TYPE: (250-1000 Pop.)	X-SMALL		ASS	SUME	D MILITARY	PERSONNEL:	73.9%	x 1,000 = 73	39
WEEKDAY HOURS (M-F)	6:00	to	22:00	=	16 hrs.	5days/wk	=	80 hrs.	
WEEKEND HOURS (SA)	8:00	to	19:00	=	11 hrs.	1days/wk	=	11 hrs.	
WEEKEND HOURS (SU)	8:00	to	17:00	=	9 hrs.	1days/wk	=	<u>9 hrs.</u>	
								100 hrs.	

One-hundred hours is used as a baseline for the study and does not affect an installation's plans for staffing and operation under the Army baseline operating standards.

X-Small Facility - maximum population of 1,000 persons - approx. 74% peak users- 100 hours of operation per week

Aerobic Exercise Average Projected Desired Desired Max. Stations 1,200 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module Aerobic Exercising 11.4% 84 x 3 hrs/wk 252 hrs/wk 50 SF/user 24 stas.	
, 1	Available Contact Hrs.
	Contact firs.
e e e e e e e e e e e e e e e e e e e	
Step Aerobics 3.0% 22 x 3 hrs/wk 67 hrs/wk 50 SF/user 24 stas.	
Calisthenics 5.7% 42 x 3 hrs/wk 126 hrs/wk 50 SF/user 24 stas.	
TOTALS 148 445 hrs/wk 50 SF/user 24 stas.	2400hrs/wk
PEAK ATTENDANCE 90% of Stations in Use 22 stas.	
PEAK UTILIZATION RATE 55% of Hours of Operation = 55 hrs/wk x 22 stas. =	1188hrs/wk
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 1188hrs/wk minus 445.16 hrs/wk =	743hrs/wk
Non-Structured Exercise Average Projected Desired Desired Max. Stations	Available
1,000 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module	Contact Hrs.
Martial Arts 3.0% 22 x 2 hrs/wk 44 hrs/wk 125 SF/user 8 stas.	
Kick Boxing 2.2% 16 x 2 hrs/wk 32 hrs/wk 125 SF/user 8 stas.	
TOTALS 38 76 hrs. 125 SF/user 8 stas.	800hrs/wk
PEAK ATTENDANCE 90% of Stations in Use 7 stas.	0001113, 1111
PEAK UTILIZATION RATE 55% of Hours of Operation = 55 hrs/wk x 7 stas. =	396hrs/wk
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 396hrs/wk minus 76 hrs. =	320hrs/wk
AVAILABLE I EAR CONTACT HOURS FOR FROMAMINING S70HS/WK HIHUS 70 HS	320111 S/ WK
Fitness Module (Weight/Cardio) Average Projected Desired Desired Max. Stations	Avoilchle
•	Available Contact Hrs.
	Contact III S.
	4000 : -
TOTALS 181 544 hrs/wk 55.36 SF/user 42 stas.	4200hrs/wk
PEAK ATTENDANCE 80% of Stations in Use 34 stas.	
	3024hrs/wk
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 3024hrs/wk minus 544 hrs/wk =	2480hrs/wk
Fitness Module (Weight/Cardio) LNS Projected Desired Desired Max. Stations	Available
2,325 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module	Contact Hrs.
Exercising with Equipment 65.0% 480 x 3 hrs/wk 1440 hrs/wk 55.4 SF/user 42 stas.	
TOTALS 480 1440 hrs/wk 55.36 SF/user 42 stas.	907hrs/wk
PEAK ATTENDANCE 80% of Stations in Use 34 stas.	
PEAK UTILIZATION RATE 90% of Hours of Operation = 90 hrs/wk x 34 stas. =	3024hrs/wk
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 3024hrs/wk minus 1440 hrs/wk =	1584hrs/wk
Gymnasium Module Average Projected Desired Desired Max. Stations	Available
10,200 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module	Contact Hrs.
Court Size is 50 x 94 for a total playing area of: 4,700 SF 1 court/s	
Volleyball 6.4% 48 x 3 hrs/wk 143 hrs/wk 392 SF/user 16 players	
Basketball 18.3% 135 x 3 hrs/wk 406 hrs/wk 470 SF/user 14 players	
TOTALS (Average for SF/Per and Stations) 183 549 hrs/wk 430.8 SF/user 15 players	1500hrs/wk
PEAK ATTENDANCE 100% of Stations in Use 15 players	1300III S/ WK
	900hrs/wk
	351hrs/wk
Note: VB assumes 12 players + 4 rotating players for each court. BB assumes 10 players + 4 waiting to rotate in for each court.	
D dillo	
Racquetball Court Average Projected Desired Desired Max. Stations 850 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module	Available
1 1	Contact Hrs.
December 1 2 10/ 22 - 21 - 1 421 / 1 212 CE/ 4	
Racquetball 3.1% 23 x 2 hrs/wk 46 hrs/wk 213 SF/user 4 occup.	400hrs/wk
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup.	
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup. PEAK ATTENDANCE 100% of Stations in Use 4 occup.	
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup.	200hrs/wk
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup. PEAK ATTENDANCE 100% of Stations in Use 4 occup.	200hrs/wk 154hrs/wk
TOTALS2346 hrs/wk212.5 SF/user4 occup.PEAK ATTENDANCE100%of Stations in Use4 occup.PEAK UTILIZATION RATE50%of Hours of Operation =50 hrs/wkx4 occup.	
TOTALS PEAK ATTENDANCE 100% of Stations in Use PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 4 occup. = AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 200hrs/wk minus 46 hrs/wk 212.5 SF/user 4 occup. = 4 occup. = 4 occup. = 4 occup. = AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 200hrs/wk minus 46 hrs/wk =	
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup. PEAK ATTENDANCE 100% of Stations in Use 4 occup. PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 4 occup. = AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 200hrs/wk minus 46 hrs/wk = Jogging Track Average Projected Desired Desired Max. Stations in Module 3,000 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module	154hrs/wk
TOTALS PEAK ATTENDANCE 100% of Stations in Use PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 4 occup. AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING Jogging Track Average Projected Desired Desired Max. Stations	154hrs/wk Available
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup. PEAK ATTENDANCE 100% of Stations in Use 4 occup. PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 4 occup. = AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 200hrs/wk minus 46 hrs/wk = Jogging Track Average Projected Desired Desired Max. Stations 3,000 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module	154hrs/wk Available
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup. PEAK ATTENDANCE 100% of Stations in Use 4 occup. PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 4 occup. AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 200hrs/wk minus 46 hrs/wk = Jogging Track Average Projected Participants Desired Desire	154hrs/wk Available
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup. PEAK ATTENDANCE 100% of Stations in Use 4 occup. PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 4 occup. AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 200hrs/wk minus 46 hrs/wk = Jogging Track Average Projected Participants Desired Times / Wk. Desired Contact Hrs. Max. Stations in Module Running / Jogging 14.6% 108 x 2 hrs/wk 216 hrs/wk 48 occup. Exercise Walking 28.8% 213 x 2 hrs/wk 425 hrs/wk 48 occup. TOTALS 321 641 hrs/wk 48 occup.	154hrs/wk Available Contact Hrs.
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup. PEAK ATTENDANCE 100% of Stations in Use 4 occup. PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 4 occup. AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 200hrs/wk minus 46 hrs/wk = Jogging Track Average Projected Participants Desired Times / Wk. Desired Contact Hrs. Max. Stations in Module Running / Jogging 14.6% 108 x 2 hrs/wk 216 hrs/wk 48 occup. Exercise Walking 28.8% 213 x 2 hrs/wk 425 hrs/wk 48 occup. TOTALS 321 641 hrs/wk 48 occup. PEAK ATTENDANCE 60% of Stations in Use 29 occup.	154hrs/wk Available Contact Hrs. 4800hrs/wk
TOTALS 23 46 hrs/wk 212.5 SF/user 4 occup.	154hrs/wk Available Contact Hrs.

Small Facility - maximum population of 3,000 persons - approx. 74% peak users- 100 hours of operation per week

Sman Facility - maximum pop									
Aerobic Exercise	Average	Projected		Desired	Desired	Max.	Stations		Available
1,650 SF	Particip.	Participants		nes / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Aerobic Exercising	11.4%	252		hrs/wk	757 hrs/wk	50 SF/user	33 stas.		
Step Aerobics	3.0%	67	x 3	hrs/wk	201 hrs/wk	50 SF/user	33 stas.		
Calisthenics	5.7%	126	x 3	hrs/wk	378 hrs/wk	50 SF/user	33 stas.		
TOTALS		445			1335 hrs/wk	50 SF/user	33 stas.		3300hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	se				30 stas.		
PEAK UTILIZATION RATE	55%	of Hours of Ope	eration	=	55 hrs/wk	x	30 stas.	=	1634hrs/wk
AVAILABLE PEAK CONTACT HOU	RS FOR PR	OGRAMMING			1634hrs/wk	minus	1335.5 hrs/wk	=	298hrs/wk
Non-Structured Exercise	Average	Projected	Г	Desired	Desired	Max.	Stations		Available
1,000 SF	Particip.	Participants	Tin	nes / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Martial Arts	3.0%	66	x 2 hrs	s/wk	131 hrs/wk	125 SF/user	8 stas.		
Kick Boxing	2.2%	48	x 2 hrs	s/wk	95 hrs/wk	125 SF/user	8 stas.		
TOTALS		113		, ,,,,,,	226.707 hrs/wk	125 SF/user	8 stas.		800hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	20		220.707 III 5/ WK	125 517 usci	7 stas.		OUUII S/ WK
PEAK UTILIZATION RATE	55%				55 has/suls		7 stas.	_	206h-wa/swls
		of Hours of Ope	ration		55 hrs/wk	X		=	396hrs/wk
AVAILABLE PEAK CONTACT HOU	KS FOR PR	OGRAMMING			396hrs/wk	minus	226.71 hrs/wk	=	169hrs/wk
Element Madela (Wat 1476 - P.)	A	n	-		Desir 1	M	64-4*		A 21. 3.3
Fitness Module (Weight/Cardio) 4645 SF	Average Portion	Projected Participants		Desired	Desired	Max.	Stations in Module		Available Contact Hrs
1 1 1	Particip.	Participants		nes / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Exercising with Equipment	24.5%	544	x 3 hrs	s/wk	1632 hrs/wk	56 SF/user	83 stas.		
TOTALS		544			1632 hrs/wk	55.96 SF/user	83 stas.		8300hrs/wk
PEAK ATTENDANCE	80%	of Stations in U	se				66 stas.		
PEAK UTILIZATION RATE	90%	of Hours of Ope	eration	=	90 hrs/wk	X	66 stas.	=	5976hrs/wk
AVAILABLE PEAK CONTACT HOU	RS FOR PR	OGRAMMING			5976hrs/wk	minus	1632 hrs/wk	=	4344hrs/wk
Fitness Module (Weight/Cardio)	LNS	Projected	Γ	Desired	Desired	Max.	Stations		Available
4,645 SF	Particip.	Participants	Tin	nes / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Exercising with Equipment	65.0%	1440	x 3 hrs	s/wk	4321 hrs/wk	56 SF/user	83 stas.		
TOTALS		1440			4321 hrs/wk	55.96 SF/user	83 stas.		8300hrs/wk
TOTALS PEAK ATTENDANCE	80%	1440 of Stations in Us			4321 hrs/wk	55.96 SF/user	83 stas.		8300hrs/wk
PEAK ATTENDANCE	80%	of Stations in U	se				66 stas.		
PEAK ATTENDANCE PEAK UTILIZATION RATE	90%	of Stations in Us of Hours of Ope	se	=	90 hrs/wk	X	66 stas.	=	5976hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us of Hours of Ope	se	=			66 stas.	=	
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU	90% TRS FOR PR	of Stations in Us of Hours of Ope OGRAMMING	se eration		90 hrs/wk 5976hrs/wk	x minus	66 stas. 66 stas. 4321 hrs/wk		5976hrs/wk 1655hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module	90% RS FOR PR Average	of Stations in Us of Hours of Ope OGRAMMING Projected	se eration :	D esired	90 hrs/wk 5976hrs/wk Desired	x minus Max.	66 stas. 66 stas. 4321 hrs/wk Stations		5976hrs/wk 1655hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF	90% TRS FOR PR Average Particip.	of Stations in Us of Hours of Ope OGRAMMING	se eration :		90 hrs/wk 5976hrs/wk	x minus Max. SF/Person	66 stas. 66 stas. 4321 hrs/wk Stations in Module		5976hrs/wk 1655hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playing	90% RS FOR PR Average Particip. ng area of:	of Stations in Use of Hours of Ope OGRAMMING Projected Participants	se eration : E Tin	Desired nes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 9,400 SF	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s		5976hrs/wk 1655hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playing Volleyball	90% RS FOR PR Average Particip. ng area of: 6.4%	of Stations in Use of Hours of Ope OGRAMMING Projected Participants	ration :	Desired nes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 9,400 SF 392 SF/user	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players		5976hrs/wk 1655hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playing Volleyball Basketball	90% IRS FOR PR Average Particip. ng area of: 6.4% 18.3%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 143 406	se eration : E Tin	Desired nes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs. 428 hrs/wk 1219 hrs/wk	x minus Max. SF/Person 9,400 SF 392 SF/user 470 SF/user	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players 28 players		5976hrs/wk 1655hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and States)	90% RS FOR PR Average Particip. ng area of: 6.4% 18.3% tions)	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 143 406 549	ration : Tin x 3 hrs x 3 hrs	Desired nes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs. 428 hrs/wk 1219 hrs/wk	x minus Max. SF/Person 9,400 SF 392 SF/user	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players 28 players 30 players		5976hrs/wk 1655hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playin Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE	90% RS FOR PR Average Particip. ng area of: 6.4% 18.3% tions) 100%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 143 406 549 of Stations in Us	Exaction Exact Share Sha	Desired mes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs. 428 hrs/wk 1219 hrs/wk	x minus Max. SF/Person 9,400 SF 392 SF/user 470 SF/user	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players 28 players 30 players 30 players	=	5976hrs/wk 1655hrs/wk Available Contact Hrs. 3000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playin Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE	90% RS FOR PR Average Particip. ng area of: 6.4% 18.3% tions) 100% 60%	of Stations in Use of Hours of Ope OGRAMMING Projected Participants 143 406 549 of Stations in Use of Hours of Ope	Exaction Exact Share Sha	Desired mes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs. 428 hrs/wk 1219 hrs/wk 1647 hrs/wk	x minus Max. SF/Person 9,400 SF 392 SF/user 470 SF/user 430.8 SF/user	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players 28 players 30 players 30 players	=	5976hrs/wk 1655hrs/wk Available Contact Hrs. 3000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playin Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU	90% RS FOR PR Average Particip. ng area of: 6.4% 18.3% tions) 100% 60% RS FOR PR	of Stations in Use of Hours of Ope OGRAMMING Projected Participants 143 406 549 of Stations in Use of Hours of Ope	x 3 hrs x 3 hrs	Desired nes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs. 428 hrs/wk 1219 hrs/wk 1647 hrs/wk 60 hrs/wk 1800hrs/wk	x minus Max. SF/Person 9,400 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players 28 players 30 players 30 players 30 players 1647 hrs/wk	=	5976hrs/wk 1655hrs/wk Available Contact Hrs. 3000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playin Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE	90% RS FOR PR Average Particip. ng area of: 6.4% 18.3% tions) 100% 60% RS FOR PR	of Stations in Use of Hours of Ope OGRAMMING Projected Participants 143 406 549 of Stations in Use of Hours of Ope	x 3 hrs x 3 hrs	Desired nes / Wk.	90 hrs/wk 5976hrs/wk Desired Contact Hrs. 428 hrs/wk 1219 hrs/wk 1647 hrs/wk 60 hrs/wk 1800hrs/wk	x minus Max. SF/Person 9,400 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players 28 players 30 players 30 players 30 players 1647 hrs/wk	=	5976hrs/wk 1655hrs/wk Available Contact Hrs. 3000hrs/wk
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PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 17,400 SF Court Size is 50 x 94 for a total playin Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotation state with the state of the s	90% RS FOR PR Average Particip. ng area of: 6.4% 18.3% tions) 100% 60% RS FOR PR ing players f Average Particip. 3.1% 100% 50% RS FOR PR Average Particip. 14.6% 28.8%	of Stations in Use of Hours of Ope OGRAMMING Projected Participants 143 406 549 of Stations in Use of Hours of Ope OGRAMMING or each court. Black Participants 69 69 of Stations in Use of Hours of Ope OGRAMMING Projected Participants 69 69 of Stations in Use of Hours of Ope OGRAMMING Projected Participants 325 638 962 of Stations in Use of Hours of Ope OGRAMMING	x 3 hrs x 3 hrs x 3 hrs x 3 hrs x 2 hrs Eration Tin x 2 hrs x 2 hrs	Desired mes / Wk. s/wk s/wk = s 10 player Desired mes / Wk. s/wk = Desired Mes / Wk. s/wk	90 hrs/wk 5976hrs/wk Desired Contact Hrs. 428 hrs/wk 1219 hrs/wk 1647 hrs/wk 60 hrs/wk 1800hrs/wk rs + 4 waiting to r Desired Contact Hrs. 138 hrs/wk 138 hrs/wk 50 hrs/wk 200hrs/wk Desired Contact Hrs. 649 hrs/wk 1275 hrs/wk	x minus Max. SF/Person 9,400 SF 392 SF/user 470 SF/user 430.8 SF/user x minus otate in for eac Max. SF/Person 213 SF/user 212.5 SF/user x minus	66 stas. 66 stas. 4321 hrs/wk Stations in Module 2 court/s 32 players 28 players 30 players 30 players 1647 hrs/wk h court. Stations in Module 4 occup. 4 occup. 4 occup. 138 hrs/wk Stations in Module 66 occup. 66 occup.	= = = = = = = = = = = = = = = = = = = =	5976hrs/wk 1655hrs/wk Available Contact Hrs. 3000hrs/wk 1800hrs/wk 153hrs/wk 400hrs/wk 200hrs/wk 62hrs/wk Available Contact Hrs.

Medium Facility - maximum population of 6,000 persons - approx. 74% peak users- 100 hours of operation per week

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Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations		Available
2,800 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Aerobic Exercising	11.4%	504	x 3 hrs/wk	1513 hrs/wk	50 SF/user	56 stas.		
Step Aerobics	3.0%	134	x 3 hrs/wk	402 hrs/wk	50 SF/user	56 stas.		
Calisthenics	5.7%	252	x 3 hrs/wk	756 hrs/wk	50 SF/user	56 stas.		
TOTALS		890		2671 hrs/wk	50 SF/user	56 stas.		5600hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	se.	20/11110///11	00 5174501	50 stas.		20001115/1111
PEAK UTILIZATION RATE	55%	of Hours of Ope		55 hrs/wk	x	50 stas.	=	2772hrs/wk
AVAILABLE PEAK CONTACT HO			ration –	2772hrs/wk	minus	2671 hrs/wk	=	101hrs/wk
AVAILABLE FEAR CONTACT HO	UKSFUKFK	OGRAMMINING		2112IIIS/WK	IIIIIus	20/1 IIIS/WK	_	TUTHIS/WK
Non-Change de la França	A	Destruted	Destruct	Destruct	M	64-4		A 21 - 1-1 -
Non-Structured Exercise 2,150 SF	Average	Projected Participants	Desired	Desired	Max.	Stations		Available
*	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Martial Arts	3.0%	131	x 2 hrs/wk	262 hrs/wk	125 SF/user	17 stas.		
Kick Boxing	2.2%	95	x 2 hrs/wk	191 hrs/wk	125 SF/user	17 stas.		
TOTALS		227		453.414 hrs/wk	125 SF/user	17 stas.		1720hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	se			15 stas.		
PEAK UTILIZATION RATE	55%	of Hours of Ope	ration =	55 hrs/wk	X	15 stas.	=	851hrs/wk
AVAILABLE PEAK CONTACT HO	URS FOR PR	OGRAMMING		851hrs/wk	minus	453.41 hrs/wk	=	398hrs/wk
-								
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations		Available
7,300 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Exercising with Equipment	24.5%	1088	x 3 hrs/wk		55.7 SF/user	131 stas.		
TOTALS	21.370	1088	A D III S/ WK					12100h-ug/zulz
	000/			3263 Nrs/WK	55.73 SF/user	131 stas.		13100hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us				105 stas.		
PEAK UTILIZATION RATE	90%	of Hours of Ope	ration =	90 hrs/wk	X	105 stas.	=_	9432hrs/wk
AVAILABLE PEAK CONTACT HO	URS FOR PR	OGRAMMING		9432hrs/wk	minus	3263 hrs/wk	=	6169hrs/wk
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations		Available
7,300 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Exercising with Equipment	65.0%	2881	x 3 hrs/wk	8643 hrs/wk	55.7 SF/user	131 stas.		
TOTALS		2881		9642 has/sulv	55.73 SF/user	131 stas.		13100hrs/wk
				8043 HFS/WK	oo./o or/user			
	80%		se .	8043 IIFS/WK	55./5 SF/user			13100H13/WK
PEAK ATTENDANCE	80% 90%	of Stations in Us				105 stas.	_	
PEAK ATTENDANCE PEAK UTILIZATION RATE	90%	of Stations in Us of Hours of Ope		90 hrs/wk	X	105 stas. 105 stas.	=	9432hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us of Hours of Ope				105 stas. 105 stas.	=	
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO	90% URS FOR PR	of Stations in Us of Hours of Ope OGRAMMING	ration =	90 hrs/wk 9432hrs/wk	x minus	105 stas. 105 stas. 8643 hrs/wk		9432hrs/wk 789hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module	90% URS FOR PR Average	of Stations in Us of Hours of Ope OGRAMMING Projected	ration = Desired	90 hrs/wk 9432hrs/wk Desired	x minus Max.	105 stas. 105 stas. 8643 hrs/wk Stations		9432hrs/wk 789hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 24,600 SF	90% URS FOR PR Average Particip.	of Stations in Us of Hours of Ope OGRAMMING	ration =	90 hrs/wk 9432hrs/wk	x minus Max. SF/Person	105 stas. 105 stas. 8643 hrs/wk Stations in Module		9432hrs/wk 789hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play	90% URS FOR PR Average Particip. ing area of:	of Stations in Us of Hours of Ope OGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 9432hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 14,100 SF	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s		9432hrs/wk 789hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball	90% URS FOR PR Average Particip. ing area of: 6.4%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 9432hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 14,100 SF 392 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players		9432hrs/wk 789hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813	Desired Times / Wk.	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players		9432hrs/wk 789hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players		9432hrs/wk 789hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players		9432hrs/wk 789hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations)	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players		9432hrs/wk 789hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see ration =	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see ration =	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see ration = 3 assumes 10 player	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk rs + 4 waiting to r	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus otate in for each	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court.	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota Racquetball Court	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = 3 assumes 10 player	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk rs + 4 waiting to r	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 45 players 3295 hrs/wk h court.	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota Racquetball Court 850 SF	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = 3 assumes 10 player Desired Times / Wk.	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs.	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota Racquetball Court 850 SF Racquetball	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = 3 assumes 10 player	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus otate in for each Max. SF/Person 213 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module 4 occup.	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rota Racquetball Court 850 SF Racquetball TOTALS	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ration = 3 assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module 4 occup. 4 occup.	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota Racquetball Court 850 SF Racquetball TOTALS PEAK ATTENDANCE	Average Particip. ing area of: 6.4% 18.3% ations) 100% URS FOR PR ting players f Average Particip. 3.1%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138 138 of Stations in Us	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ration = 3 assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus otate in for each Max. SF/Person 213 SF/user 212.5 SF/user	105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module 4 occup. 4 occup.	= = =	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota Racquetball Court 850 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138 138 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ration = 3 assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 60 hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk 276 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	105 stas. 105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module 4 occup. 4 occup. 4 occup. 4 occup.	=	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk Available Contact Hrs. 400hrs/wk
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PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota Racquetball Court 850 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Jogging Track 5,300 SF Running / Jogging Exercise Walking	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 40% 50% URS FOR PR Average Particip. 14.6%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 649 1275	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk. x 2 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 2700hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk 276 hrs/wk 200hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	105 stas. 105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module 4 occup. 4 occup. 4 occup. 276 hrs/wk Stations in Module 84 occup. 84 occup.	= = =	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk -595hrs/wk Available Contact Hrs. 400hrs/wk -76hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Gymnasium Module 24,600 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Note: VB assumes 12 players + 4 rota Racquetball Court 850 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOR Jogging Track 5,300 SF Running / Jogging Exercise Walking TOTALS	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ating players f Average Particip. 3.1% Average Particip. 4.6% 28.8%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 649 1275 1924	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk. x 2 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 2700hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk 276 hrs/wk 200hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	105 stas. 105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module 4 occup. 4 occup. 4 occup. 276 hrs/wk Stations in Module 84 occup. 84 occup. 84 occup.	= = =	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk Available Contact Hrs. 400hrs/wk 200hrs/wk -76hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOWAILABLE PEAK ATTENDANCE	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 4verage Particip. 3.1% 4verage Particip. 3.1% 60%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 649 1275 1924 of Stations in Us	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 playe: Desired Times / Wk. x 2 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 2700hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk 276 hrs/wk 200hrs/wk Desired Contact Hrs. 1298 hrs/wk 2550 hrs/wk 3849 hrs/wk	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user x minus Max. SF/Person	105 stas. 105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 3295 hrs/wk h court. Stations in Module 4 occup. 4 occup. 4 occup. 276 hrs/wk Stations in Module 84 occup. 84 occup. 84 occup. 84 occup.		9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk -595hrs/wk Available Contact Hrs. 400hrs/wk -76hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK STATEMENT OF THE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK CONTACT HOWAILABLE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOWAILABLE	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 4verage Particip. 3.1% 4verage Particip. 3.1% 60% URS FOR PR Average Particip. 4.6% 28.8%	of Stations in Us of Hours of Ope OGRAMMING Projected Participants 286 813 1098 of Stations in Us of Hours of Ope OGRAMMING or each court. BE Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 138 138 of Stations in Us of Hours of Ope OGRAMMING Projected Participants 649 1275 1924 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 playe: Desired Times / Wk. x 2 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 9432hrs/wk Desired Contact Hrs. 857 hrs/wk 2438 hrs/wk 3295 hrs/wk 2700hrs/wk 2700hrs/wk rs + 4 waiting to r Desired Contact Hrs. 276 hrs/wk 276 hrs/wk 200hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 14,100 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	105 stas. 105 stas. 105 stas. 8643 hrs/wk Stations in Module 3 court/s 48 players 42 players 45 players 45 players 45 players 45 players 45 players 46 players 47 players 48 players 49 players 40 pl	= = =	9432hrs/wk 789hrs/wk Available Contact Hrs. 4500hrs/wk 2700hrs/wk -595hrs/wk Available Contact Hrs. 400hrs/wk -76hrs/wk Available Contact Hrs.

Large Facility - maximum population of 10,000 persons - approx. 74% peak users- 100 hours of operation per week

						G		
Aerobic Exercise 4,500 SF	Average Particip.	Projected Participants	Desired Times / Wk.	Desired Contact Hrs.	Max. SF/Person	Stations in Module		Available Contact Hrs.
Aerobic Exercising	11.4%		x 3 hrs/wk	2522 hrs/wk	50 SF/user	90 stas.		Contact III s.
Step Aerobics	3.0%		x 3 hrs/wk	670 hrs/wk	50 SF/user	90 stas. 90 stas.		
Calisthenics	5.7%		x 3 hrs/wk	1259 hrs/wk	50 SF/user	90 stas.		
	3.770		X 3 III 5/ W K					00001-49/1-
TOTALS PEAK ATTENDANCE	90%	of Stations in Use		4452 hrs/wk	50 SF/user	90 stas.		9000hrs/wk
PEAK UTILIZATION RATE	55%			55 hrs/wk		81 stas.	=	4455hrs/wk
		of Hours of Opera	ation =		X	81 stas.	_	
AVAILABLE PEAK CONTACT HOU	UKS FUR PR	UGRAMMING		4455hrs/wk	minus	4451.6 hrs/wk		3hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations		Available
2,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Martial Arts	3.0%	219	x 2 hrs/wk	437 hrs/wk	125 SF/user	20 stas.		
Kick Boxing	2.2%		x 2 hrs/wk		125 SF/user	20 stas.		
TOTALS		378		755.689 hrs/wk	125 SF/user	20 stas.		2000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use		recios mis wi	120 0174301	16 stas.		2000115/ WK
PEAK UTILIZATION RATE	50%	of Hours of Opera		50 hrs/wk	X	16 stas.	=	800hrs/wk
AVAILABLE PEAK CONTACT HOU				800hrs/wk	minus	756 hrs/wk	=	44hrs/wk
111111111111111111111111111111111111111	01010111	0 0111/11/11/10		0001115/1111		700 1115/ 1111		111119/1111
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations		Available
11,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Exercising with Equipment	24.5%	1813	x 3 hrs/wk	5438 hrs/wk	55.8 SF/user	206 stas.		
TOTALS		1813		5438 hrs/wk	55.83 SF/user	206 stas.		20600hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use				165 stas.		
PEAK UTILIZATION RATE	90%	of Hours of Opera	ation =	90 hrs/wk	x	165 stas.	=	14832hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PR	OGRAMMING		14832hrs/wk	minus	5438 hrs/wk	=	9394hrs/wk
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations		Available
11,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module		Contact Hrs.
Exercising with Equipment	65.0%	4801	x 3 hrs/wk	14404 hrs/wk	55.8 SF/user	206 stas.		
TOTALS		4801		14404 hrs/wk	55.83 SF/user	206 stas.		20600hrs/wk
PEAK ATTENDANCE	80%	4801 of Stations in Use		14404 hrs/wk	55.83 SF/user	206 stas. 165 stas.		20600hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE	90%	of Stations in Use of Hours of Opera		90 hrs/wk	X	165 stas. 165 stas.	=	14832hrs/wk
PEAK ATTENDANCE	90%	of Stations in Use of Hours of Opera				165 stas.		
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU	90% URS FOR PR	of Stations in Use of Hours of Opera COGRAMMING	ation =	90 hrs/wk 14832hrs/wk	x minus	165 stas. 165 stas. 14404 hrs/wk		14832hrs/wk 428hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module	90% URS FOR PR Average	of Stations in Use of Hours of Opera OGRAMMING Projected	ntion =	90 hrs/wk 14832hrs/wk Desired	x minus Max.	165 stas. 165 stas. 14404 hrs/wk Stations		14832hrs/wk 428hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF	90% URS FOR PR Average Particip.	of Stations in Use of Hours of Opera COGRAMMING	ation =	90 hrs/wk 14832hrs/wk	x minus Max. SF/Person	165 stas. 165 stas. 14404 hrs/wk Stations in Module		14832hrs/wk 428hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays	90% URS FOR PR Average Particip. ing area of:	of Stations in Use of Hours of Opera OGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 14832hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 18,800 SF	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s		14832hrs/wk 428hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball	90% URS FOR PR Average Particip. ing area of: 6.4%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 14832hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 18,800 SF 392 SF/user	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players		14832hrs/wk 428hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playing Volleyball Basketball	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354	Desired Times / Wk.	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players		14832hrs/wk 428hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations)	of Stations in Use of Hours of Opera COGRAMMING Projected Participants 476 1354 1830	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players		14832hrs/wk 428hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players	=	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players	=	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 50 players 5491 hrs/wk	=	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 50 players 5491 hrs/wk	=	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotal	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera COGRAMMING or each court. BB a	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation =	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus otate in for each	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court.	=	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 50 players 5491 hrs/wk	=	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total plays Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotal Racquetball Courts	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING or each court. BB a	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each	165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations	=	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk
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PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotan Racquetball Courts 1,700 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6400 SF	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 100% 50% URS FOR PR Average Particip.	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING or each court. BB a Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 270 Projected Participants 270 Projected Participants Projected Participants	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk.	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r Desired Contact Hrs. 461 hrs/wk 461 hrs/wk 400hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	165 stas. 165 stas. 16404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations in Module 8 occup. 8 occup. 8 occup. 8 occup. 461 hrs/wk Stations in Module	=======================================	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk Available Contact Hrs. 800hrs/wk 400hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotal Racquetball Courts 1,700 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6400 SF Running / Jogging	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 100% 50% URS FOR PR Average Particip. 14.6%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 1082	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r Desired Contact Hrs. 461 hrs/wk 461 hrs/wk 400hrs/wk Desired Contact Hrs. 2164 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	165 stas. 165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations in Module 8 occup. 8 occup. 8 occup. 8 occup. 461 hrs/wk Stations in Module 102 occup.	=======================================	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk Available Contact Hrs. 800hrs/wk 400hrs/wk -61hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotan Racquetball Courts 1,700 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6400 SF	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 100% 50% URS FOR PR Average Particip.	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 1082	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk.	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r Desired Contact Hrs. 461 hrs/wk 461 hrs/wk 400hrs/wk Desired Contact Hrs. 2164 hrs/wk 4250 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	165 stas. 165 stas. 16404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations in Module 8 occup. 8 occup. 8 occup. 8 occup. 461 hrs/wk Stations in Module	=======================================	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk Available Contact Hrs. 800hrs/wk 400hrs/wk -61hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotan Racquetball Courts 1,700 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6400 SF Running / Jogging Exercise Walking TOTALS	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 100% 50% URS FOR PR Average Particip. 4.6% 28.8%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING Or each court. BB a Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 1082 2125 3207	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r Desired Contact Hrs. 461 hrs/wk 461 hrs/wk 400hrs/wk Desired Contact Hrs. 2164 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	165 stas. 165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations in Module 8 occup. 8 occup. 8 occup. 8 occup. 461 hrs/wk Stations in Module 102 occup.	=======================================	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk Available Contact Hrs. 800hrs/wk 400hrs/wk -61hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playive Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotate Racquetball Courts 1,700 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6400 SF Running / Jogging Exercise Walking	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 100% 50% URS FOR PR Average Particip. 14.6%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING or each court. BB a Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 1082 2125	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r Desired Contact Hrs. 461 hrs/wk 461 hrs/wk 400hrs/wk Desired Contact Hrs. 2164 hrs/wk 4250 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	165 stas. 165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations in Module 8 occup. 8 occup. 8 occup. 461 hrs/wk Stations in Module 102 occup. 102 occup.	=======================================	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk Available Contact Hrs. 800hrs/wk 400hrs/wk -61hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotan Racquetball Courts 1,700 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6400 SF Running / Jogging Exercise Walking TOTALS	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 100% 50% URS FOR PR Average Particip. 4.6% 28.8%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING Or each court. BB a Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 1082 2125 3207	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r Desired Contact Hrs. 461 hrs/wk 461 hrs/wk 400hrs/wk Desired Contact Hrs. 2164 hrs/wk 4250 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user	165 stas. 165 stas. 165 stas. 14404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations in Module 8 occup. 8 occup. 8 occup. 461 hrs/wk Stations in Module 102 occup. 102 occup.	=======================================	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk Available Contact Hrs. 800hrs/wk 400hrs/wk -61hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 31,800 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotan Racquetball Courts 1,700 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6400 SF Running / Jogging Exercise Walking TOTALS PEAK ATTENDANCE	90% URS FOR PR Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PR ting players f Average Particip. 3.1% 100% 50% URS FOR PR Average Particip. 14.6% 28.8%	of Stations in Use of Hours of Opera OGRAMMING Projected Participants 476 1354 1830 of Stations in Use of Hours of Opera OGRAMMING or each court. BB a Projected Participants 230 230 of Stations in Use of Hours of Opera OGRAMMING Projected Participants 1082 2125 3207 of Stations in Use of Hours of Opera	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 14832hrs/wk Desired Contact Hrs. 1428 hrs/wk 4063 hrs/wk 5491 hrs/wk 60 hrs/wk 3600hrs/wk rs + 4 waiting to r Desired Contact Hrs. 461 hrs/wk 461 hrs/wk 400hrs/wk Desired Contact Hrs. 2164 hrs/wk 4250 hrs/wk	x minus Max. SF/Person 18,800 SF 392 SF/user 470 SF/user 430.8 SF/user x minus rotate in for each Max. SF/Person 213 SF/user 212.5 SF/user x minus	165 stas. 165 stas. 16404 hrs/wk Stations in Module 4 court/s 64 players 56 players 60 players 60 players 5491 hrs/wk h court. Stations in Module 8 occup. 8 occup. 8 occup. 461 hrs/wk Stations in Module 102 occup. 102 occup. 102 occup.	= = = = = = = = = = = = = = = = = = = =	14832hrs/wk 428hrs/wk Available Contact Hrs. 6000hrs/wk 3600hrs/wk -1891hrs/wk Available Contact Hrs. 800hrs/wk 400hrs/wk -61hrs/wk Available Contact Hrs.

Maximum authorized population of 20,000 - 100 hours of operation per week:

Base Population:	(15,001-20,000)			•			
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
9,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	1681	x 3 hrs/wk	5044 hrs/wk	50 SF/user	180 stas.	
Step Aerobics	3.0%	447	x 3 hrs/wk	1340 hrs/wk	50 SF/user	180 stas.	
Calisthenics	5.7%	840	x 3 hrs/wk	2519 hrs/wk	50 SF/user	180 stas.	
TOTALS		2968		8903 hrs/wk	50 SF/user	180 stas.	18000hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	e			162 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Open	ration =	55 hrs/wk	x	162 stas. =	8910hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PRO	OGRAMMING		8910hrs/wk	minus	8903.2 hrs/wk =	7hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
5,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	437	x 2 hrs/wk	875 hrs/wk	125 SF/user	40 stas.	
Kick Boxing	2.2%	318	x 2 hrs/wk	636 hrs/wk	125 SF/user	40 stas.	
TOTALS		756		1511.38 hrs/wk	125 SF/user	40 stas.	4000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e	1011100 1110, 1111	120 5170501	32 stas.	10001115/1111
PEAK UTILIZATION RATE	50%	of Hours of Oper		50 hrs/wk	x	32 stas. =	1600hrs/wk
AVAILABLE PEAK CONTACT HOU			auon –	1600hrs/wk	minus	1511.4 hrs/wk =	89hrs/wk
AVAILABLE I LAK CONTACT HO	JKS FOR I K	JGKAMMING		1000III S/ W.K.	minus	1311.4 III S/ WK =	OJIII S/ WK
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations	Available
23,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%	3626	x 3 hrs/wk	10877 hrs/wk	55.8 SF/user	412 stas.	
TOTALS		3626		10877 hrs/wk	55.83 SF/user	412 stas.	41200hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e			330 stas.	
PEAK UTILIZATION RATE	90%	of Hours of Open	ration =	90 hrs/wk	X	330 stas. =	29664hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PRO	OGRAMMING		29664hrs/wk	minus	10877 hrs/wk =	18787hrs/wk
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
23,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	9603	x 3 hrs/wk	28809 hrs/wk	55.8 SF/user	412 stas.	
TOTALS		9603		28809 hrs/wk	55.83 SF/user	412 stas.	41200hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e			330 stas.	
PEAK UTILIZATION RATE	90%	of Hours of Open	ration =	90 hrs/wk	x	330 stas. =	29664hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PRO	OGRAMMING		29664hrs/wk	minus	28809 hrs/wk =	855hrs/wk
Gymnasium Module	Average	Projected	Desired	Desired	Max.	Stations	Available
48,600 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Court Size is 50 x 94 for a total playi	U				28,200 SF	6 court/s	
Volleyball	6.4%	952	x 3 hrs/wk	2856 hrs/wk	392 SF/user	96 players	
Basketball	18.3%	2709	x 3 hrs/wk	8127 hrs/wk	470 SF/user	84 players	
TOTALS (Average for SF/Per and Sta	tions)	3661		10983 hrs/wk	430.8 SF/user	90 players	9000hrs/wk
PEAK ATTENDANCE	100%	of Stations in Us	e			90 players	
PEAK UTILIZATION RATE	60%	of Hours of Open	ration =	60 hrs/wk	X	90 players =	5400hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PRO	OGRAMMING		5400hrs/wk	minus	10983 hrs/wk =	-5583hrs/wk
Note: VB assumes 12 players + 4 rotat	ting players fo	r each court. BB	assumes 10 player	rs + 4 waiting to re	otate in for each	court.	
Racquetball Courts	Avonoso	Projected	Desired	Desired	Max.	Stations	Available
3,400 SF	Average Particip.	Projected Participants	Times / Wk.	Contact Hrs.	Max. SF/Person	in Module	Available Contact Hrs.
Racquetball	3.1%	461	x 2 hrs/wk	921 hrs/wk	213 SF/user	16 occup.	Commer III o
	J.1 /0		A 4 1115/WK			*	16001 / 1
TOTALS PEAK ATTENDANCE	1000/	461	0	921 nrs/wk	212.5 SF/user	16 occup.	1600hrs/wk
	100%	of Stations in Us		50 1. / ·		16 occup.	0001/ 1
PEAK UTILIZATION RATE	50%	of Hours of Oper	rauon =	50 hrs/wk	X	16 occup. =	800hrs/wk
AVAILABLE PEAK CONTACT HOU	UKS FOR PRO	JGKAMMING		800hrs/wk	minus	921 hrs/wk =	-121hrs/wk
Jogging Track	Average	Projected	Desired	Desired	Max.	Stations	Available
6,400 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Running / Jogging	14.6%	2164	x 2 hrs/wk	4328 hrs/wk		150 occup.	
Exercise Walking	28.8%	4250	x 2 hrs/wk	8501 hrs/wk		150 occup.	
TOTALS	20.070	6414	2 mo/ WK	12828 hrs/wk		150 occup.	15000hrs/wk
PEAK ATTENDANCE	60%	of Stations in Us	Α	14040 HFS/WK		90 occup.	13000III'S/WK
PEAK UTILIZATION RATE	80%	of Hours of Open		80 hrs/wk	x	90 occup. =	7200hrs/wk
AVAILABLE PEAK CONTACT HOU			ation =	7200hrs/wk	minus	12828 hrs/wk =	-5628hrs/wk

Maximum authorized population of 25,000 - 100 hours of operation per week:

Base Population:	(20,001-25,000))					
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
11,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	2102	x 3 hrs/wk	6306 hrs/wk	50 SF/user	225 stas.	
Step Aerobics	3.0%	558	x 3 hrs/wk	1675 hrs/wk	50 SF/user	225 stas.	
Calisthenics	5.7%	1049	x 3 hrs/wk	3148 hrs/wk	50 SF/user	225 stas.	
TOTALS		3710		11129 hrs/wk	50 SF/user	225 stas.	22500hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	e			203 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Ope	ration =	55 hrs/wk	x	203 stas. =	11138hrs/wk
AVAILABLE PEAK CONTACT HO	OURS FOR PR	OGRAMMING		11138hrs/wk	minus	11129 hrs/wk =	8hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
6,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	547	x 2 hrs/wk	1094 hrs/wk	125 SF/user	50 stas.	
Kick Boxing	2.2%	398	x 2 hrs/wk	796 hrs/wk	125 SF/user	50 stas.	
TOTALS		945		1889.22 hrs/wk	125 SF/user	50 stas.	5000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e			40 stas.	
PEAK UTILIZATION RATE	50%	of Hours of Ope	ration =	50 hrs/wk	X	40 stas. =	2000hrs/wk
AVAILABLE PEAK CONTACT HO	OURS FOR PR	OGRAMMING		2000hrs/wk	minus	1889.2 hrs/wk =	111hrs/wk
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations	Available
28,750 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%	4532	x 3 hrs/wk	13596 hrs/wk	55.8 SF/user	515 stas.	
TOTALS		4532		13596 hrs/wk		515 stas.	51500hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e	15550 HIS/WK	color bi rusci	412 stas.	e le dolli 5/ WK
PEAK UTILIZATION RATE	90%	of Hours of Ope		90 hrs/wk	x	412 stas. =	37080hrs/wk
AVAILABLE PEAK CONTACT HO				37080hrs/wk	minus	13596 hrs/wk =	23484hrs/wk
	<u> </u>	0 0111111111		C70001115/ WIL		100 0 1110, 1111	20 10 11115, 1111
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
28,750 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	12004	x 3 hrs/wk	36011 hrs/wk	55.8 SF/user	515 stas.	
TOTALS		12004		36011 hrs/wk	55.83 SF/user	515 stas.	51500hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e			412 stas.	
PEAK UTILIZATION RATE	90%	of Hours of Ope	ration =	90 hrs/wk	X	412 stas. =	37080hrs/wk
AVAILABLE PEAK CONTACT HO	OURS FOR PR	OGRAMMING		37080hrs/wk	minus	36011 hrs/wk =	1069hrs/wk
Gymnasium Module	Average	Projected	Desired	Desired	Max.	Stations	Available
	Particip.		Times / Wk.				
57,000 SF	_	Participants	Times / WK.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Court Size is 50 x 94 for a total play	ying area of:	-			32,900 SF	7 court/s	Contact Hrs.
Court Size is 50 x 94 for a total play Volleyball	ying area of: 6.4%	1190	x 3 hrs/wk	3570 hrs/wk	32,900 SF 392 SF/user	7 court/s 112 players	Contact Hrs.
Court Size is 50 x 94 for a total play Volleyball Basketball	ying area of: 6.4% 18.3%	1190 3386		3570 hrs/wk 10158 hrs/wk	32,900 SF 392 SF/user 470 SF/user	7 court/s 112 players 98 players	
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St	ying area of: 6.4% 18.3% tations)	1190 3386 4576	x 3 hrs/wk x 3 hrs/wk	3570 hrs/wk	32,900 SF 392 SF/user 470 SF/user	7 court/s 112 players 98 players 105 players	10500hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE	ying area of: 6.4% 18.3% tations)	1190 3386 4576 of Stations in Us	x 3 hrs/wk x 3 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk	32,900 SF 392 SF/user 470 SF/user	7 court/s 112 players 98 players 105 players 105 players	10500hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE	ying area of: 6.4% 18.3% tations) 100% 60%	1190 3386 4576 of Stations in Us of Hours of Oper	x 3 hrs/wk x 3 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk	32,900 SF 392 SF/user 470 SF/user	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players	10500hrs/wk 6300hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR	1190 3386 4576 of Stations in Us of Hours of Ope	x 3 hrs/wk x 3 hrs/wk e eration =	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players = 13728 hrs/wk =	10500hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR	1190 3386 4576 of Stations in Us of Hours of Ope	x 3 hrs/wk x 3 hrs/wk e eration =	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players = 13728 hrs/wk =	10500hrs/wk 6300hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players 13728 hrs/wk = court.	10500hrs/wk 6300hrs/wk -7428hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus otate in for each	7 court/s 112 players 98 players 105 players 105 players 105 players = 13728 hrs/wk =	10500hrs/wk 6300hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip.	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk.	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs.	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players = 13728 hrs/wk = court. Stations in Module	10500hrs/wk 6300hrs/wk -7428hrs/wk Available
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user	7 court/s 112 players 98 players 105 players 105 players 105 players 20 court. Stations in Module 20 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs.
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk cs + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person	7 court/s 112 players 98 players 105 players 105 players 105 players 20 occup. 20 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players court. Stations in Module 20 occup. 20 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user	7 court/s 112 players 98 players 105 players 105 players 105 players 20 occup. 20 occup. 20 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players court. Stations in Module 20 occup. 20 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user	7 court/s 112 players 98 players 105 players 105 players 105 players 20 occup. 20 occup. 20 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip.	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper OGRAMMING Projected Participants	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk.	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk 1000hrs/wk Desired Contact Hrs.	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user	7 court/s 112 players 98 players 105 players 105 players 105 players 20 court. Stations in Module 20 occup. 20 occup. 20 occup. 2152 hrs/wk = Stations in Module	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk 1000hrs/wk -152hrs/wk
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF Running / Jogging	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip. 14.6%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper OGRAMMING Projected Participants 2705	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk. x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk 1000hrs/wk Desired Contact Hrs. 50 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players 20 court. Stations in Module 20 occup. 20 occup. 20 occup. 20 occup. 2152 hrs/wk = Stations in Module 150 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk 1000hrs/wk -152hrs/wk Available
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip.	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper OGRAMMING Projected Participants	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk.	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk 1000hrs/wk Desired Contact Hrs.	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players 20 court. Stations in Module 20 occup. 20 occup. 20 occup. 2152 hrs/wk = Stations in Module	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk 1000hrs/wk -152hrs/wk Available
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip. 14.6% 28.8%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper OGRAMMING Projected Participants 2705	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk. x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk 1000hrs/wk Desired Contact Hrs. 50 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players 205 players 105 players 105 players 200 ocup. 200 occup. 200 occup. 200 occup. 200 occup. 2152 hrs/wk Stations in Module 150 occup. 150 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk 1000hrs/wk -152hrs/wk Available
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF Running / Jogging Exercise Walking	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip. 14.6% 28.8%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper OGRAMMING Projected Participants 2705 5313	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk 1000hrs/wk Desired Contact Hrs. 50 hrs/wk 1000hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players 205 players 105 players 105 players 200 ocup. 200 occup. 200 occup. 200 occup. 200 occup. 200 occup. 2152 hrs/wk Stations in Module 150 occup. 150 occup. 150 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk 1000hrs/wk -152hrs/wk Available Contact Hrs.
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip. 14.6% 28.8%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper OGRAMMING Projected Participants 2705 5313 8018	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk 1000hrs/wk Desired Contact Hrs. 50 hrs/wk 1000hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user x minus	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players 205 players 105 players 105 players 200 ocup. 200 occup. 200 occup. 200 occup. 200 occup. 2152 hrs/wk Stations in Module 150 occup. 150 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk 1000hrs/wk -152hrs/wk Available Contact Hrs.
Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 4,250 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS PEAK ATTENDANCE	ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players for Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip. 14.6% 28.8%	1190 3386 4576 of Stations in Us of Hours of Oper OGRAMMING or each court. BB Projected Participants 576 576 of Stations in Us of Hours of Oper OGRAMMING Projected Participants 2705 5313 8018 of Stations in Us of Hours of Oper	x 3 hrs/wk x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	3570 hrs/wk 10158 hrs/wk 13728 hrs/wk 60 hrs/wk 6300hrs/wk s + 4 waiting to ro Desired Contact Hrs. 1152 hrs/wk 1152 hrs/wk 1000hrs/wk Desired Contact Hrs. 5410 hrs/wk 10626 hrs/wk	32,900 SF 392 SF/user 470 SF/user 430.8 SF/user x minus tate in for each Max. SF/Person 213 SF/user 212.5 SF/user x minus Max. SF/Person	7 court/s 112 players 98 players 105 players 105 players 105 players 105 players 205 players 105 players 105 players 200 ocup. 200 occup. 200 occup. 200 occup. 200 occup. 200 occup. 2152 hrs/wk Stations in Module 150 occup. 150 occup. 150 occup.	10500hrs/wk 6300hrs/wk -7428hrs/wk Available Contact Hrs. 2000hrs/wk 1000hrs/wk -152hrs/wk Available Contact Hrs.

Maximum authorized population of 30,000 - 100 hours of operation per week:

Base Population:	(25,001-30,00	0)					
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
13,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	2522	x 3 hrs/wk	7567 hrs/wk	50 SF/user	270 stas.	
Step Aerobics	3.0%	670	x 3 hrs/wk	2010 hrs/wk	50 SF/user	270 stas.	
Calisthenics	5.7%	1259	x 3 hrs/wk	3778 hrs/wk	50 SF/user	270 stas.	
TOTALS		4452		13355 hrs/wk	50 SF/user	270 stas.	27000hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	se			243 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Ope	eration =	55 hrs/wk	X	243 stas. =	13365hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PI	ROGRAMMING		13365hrs/wk	minus	13355 hrs/wk =	10hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
7,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	656	x 2 hrs/wk	1312 hrs/wk	125 SF/user	60 stas.	
Kick Boxing	2.2%	477	x 2 hrs/wk	955 hrs/wk	125 SF/user	60 stas.	
TOTALS		1134		2267.07 hrs/wk	125 SF/user	60 stas.	6000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us				48 stas.	
PEAK UTILIZATION RATE	50%	of Hours of Ope	eration =	50 hrs/wk	X	48 stas. =	2400hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PI	ROGRAMMING		2400hrs/wk	minus	2267.1 hrs/wk =	133hrs/wk
Fitness Module (Weight/Cardio) 34,500 SF	Average	Projected	Desired	Desired	Max.	Stations	Available
· · · · · · · · · · · · · · · · · · ·	Particip.	Participants 5 4 2 9	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%	5438	x 3 hrs/wk	16315 hrs/wk	55.8 SF/user	618 stas.	(1000) / 1
TOTALS PEAK A TTENDANCE	900/	5438		16315 hrs/wk	55.83 SF/user	618 stas.	61800hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us		001 / 1		494 stas.	44407 / 1
PEAK UTILIZATION RATE	90%	of Hours of Ope	eration =	90 hrs/wk	<u>x</u>	494 stas. =	44496hrs/wk
AVAILABLE PEAK CONTACT HOU	UKS FOR PE	ROGRAMMING		44496hrs/wk	minus	16315 hrs/wk =	28181hrs/wk
Fitness Module (Weight/Condie)	LNS	Projected	Desired	Desired	Max.	Stations	Available
Fitness Module (Weight/Cardio) 34,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	14404	x 3 hrs/wk	43213 hrs/wk	55.8 SF/user	618 stas.	Contact III St
	03.070		A J III 5/ WK				(1000)
TOTALS		1/1/0/1		43213 hre/wk	55 93 CF/mear	618 etae	61 X00hre/xx/z
TOTALS PEAK ATTENDANCE	80%	of Stations in Us	Se Se	43213 hrs/wk	55.83 SF/user	618 stas.	61800hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us				494 stas.	
PEAK ATTENDANCE PEAK UTILIZATION RATE	90%	of Stations in Us of Hours of Ope		90 hrs/wk	X	494 stas. =	44496hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us of Hours of Ope				494 stas.	
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU	90% URS FOR PE	of Stations in Us of Hours of Ope ROGRAMMING		90 hrs/wk	X	494 stas. =	44496hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE	90%	of Stations in Us of Hours of Ope	eration =	90 hrs/wk 44496hrs/wk	x minus	494 stas. = 43213 hrs/wk =	44496hrs/wk 1283hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module	90% URS FOR PI Average Particip.	of Stations in Us of Hours of Ope COGRAMMING Projected	eration = Desired	90 hrs/wk 44496hrs/wk Desired	x minus Max.	494 stas. = 43213 hrs/wk = Stations	44496hrs/wk 1283hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF	90% URS FOR PI Average Particip.	of Stations in Us of Hours of Ope COGRAMMING Projected	eration = Desired	90 hrs/wk 44496hrs/wk Desired	x minus Max. SF/Person	494 stas. = 43213 hrs/wk = Stations in Module	44496hrs/wk 1283hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi	90% URS FOR PE Average Particip. ing area of:	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 44496hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 37,600 SF	494 stas. = 43213 hrs/wk = Stations in Module 8 court/s	44496hrs/wk 1283hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user	494 stas. = 494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players	44496hrs/wk 1283hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball Basketball	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1428 4063	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user	494 stas. = 494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players 112 players	44496hrs/wk 1283hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% utions)	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1428 4063 5491	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user	494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players 112 players 120 players	44496hrs/wk 1283hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE	90% URS FOR PP Average Particip. ing area of: 6.4% 18.3% stions) 100% 60%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1428 4063 5491 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk 16474 hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user 430.8 SF/user	494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players 112 players 120 players 120 players	44496hrs/wk 1283hrs/wk Available Contact Hrs. 12000hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE	90% URS FOR PP Average Particip. ing area of: 6.4% 18.3% stions) 100% 60% URS FOR PP	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1428 4063 5491 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk 16474 hrs/wk 60 hrs/wk 7200hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user 430.8 SF/user x minus	494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players 112 players 120 players 120 players 120 players 120 players 120 players	44496hrs/wk 1283hrs/wk Available Contact Hrs. 12000hrs/wk
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PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotat Racquetball Courts S,100 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PF ting players i Average Particip. 3.1% 100% 50% URS FOR PF Average Particip. 14.6% 28.8%	of Stations in Use of Hours of Ope ROGRAMMING Projected Participants 1428 4063 5491 of Stations in Use of Hours of Ope ROGRAMMING For each court. BE Participants 691 of Stations in Use of Hours of Ope ROGRAMMING Projected Participants 3246 6376 9621	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see Pration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk 16474 hrs/wk 7200hrs/wk 7200hrs/wk s + 4 waiting to re Desired Contact Hrs. 1382 hrs/wk 1382 hrs/wk 1200hrs/wk Desired Contact Hrs. 6492 hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user 430.8 SF/user x minus btate in for each Max. SF/Person 213 SF/user x minus Max. Max. Max.	494 stas. 494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players 112 players 120 players 120 players 120 players 24 ocup. 24 occup. 24 occup. 24 occup. 24 occup. 24 occup. 25 occup. 25 occup. 150 occup.	44496hrs/wk 1283hrs/wk Available Contact Hrs. 12000hrs/wk 7200hrs/wk -9274hrs/wk Available Contact Hrs. 2400hrs/wk -1200hrs/wk -182hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotat Racquetball Courts 5,100 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS PEAK ATTENDANCE	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PF ting players i Average Particip. 3.1% 100% 50% URS FOR PF Average Particip. 14.6% 28.8%	of Stations in Use of Hours of Ope ROGRAMMING Projected Participants 1428 4063 5491 of Stations in Use of Hours of Ope ROGRAMMING For each court. BE Projected Participants 691 of Stations in Use of Hours of Ope ROGRAMMING Projected Participants 3246 6376 9621 of Stations in Use of Stations in Use of Stations in Use of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see Pration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk 16474 hrs/wk 60 hrs/wk 7200hrs/wk s + 4 waiting to re Desired Contact Hrs. 1382 hrs/wk 1382 hrs/wk 1200hrs/wk 1200hrs/wk 1200hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user 430.8 SF/user x minus otate in for each Max. SF/Person 213 SF/user x minus Max. SF/Person	494 stas. 494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players 112 players 120 players 120 players 120 players 24 ocup. 24 occup. 24 occup. 24 occup. 24 occup. 24 occup. 25 occup. 26 occup. 150 occup. 150 occup.	44496hrs/wk 1283hrs/wk Available Contact Hrs. 12000hrs/wk 7200hrs/wk -9274hrs/wk Available Contact Hrs. 2400hrs/wk 1200hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 65,400 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotat Racquetball Courts S,100 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PF ting players i Average Particip. 3.1% 100% 50% URS FOR PF Average Particip. 14.6% 28.8%	of Stations in Use of Hours of Ope ROGRAMMING Projected Participants 1428 4063 5491 of Stations in Use of Hours of Ope ROGRAMMING For each court. BE Participants 691 of Stations in Use of Hours of Ope ROGRAMMING Projected Participants 3246 6376 9621 of Stations in Use of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see Pration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 44496hrs/wk Desired Contact Hrs. 4284 hrs/wk 12190 hrs/wk 16474 hrs/wk 7200hrs/wk 7200hrs/wk s + 4 waiting to re Desired Contact Hrs. 1382 hrs/wk 1382 hrs/wk 1200hrs/wk 1200hrs/wk	x minus Max. SF/Person 37,600 SF 392 SF/user 470 SF/user 430.8 SF/user x minus btate in for each Max. SF/Person 213 SF/user x minus Max. Max. Max.	494 stas. 494 stas. = 43213 hrs/wk = Stations in Module 8 court/s 128 players 112 players 120 players 120 players 120 players 24 ocup. 24 occup. 24 occup. 24 occup. 24 occup. 24 occup. 25 occup. 25 occup. 150 occup.	44496hrs/wk 1283hrs/wk Available Contact Hrs. 12000hrs/wk 7200hrs/wk -9274hrs/wk Available Contact Hrs. 2400hrs/wk 1200hrs/wk -182hrs/wk Available Contact Hrs.

Maximum authorized population of 35,000 - 100 hours of operation per week:

Base Population:	(30,001-35,000))					
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
15,750 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	2943	x 3 hrs/wk	8828 hrs/wk	50 SF/user	315 stas.	
Step Aerobics	3.0%	782	x 3 hrs/wk	2346 hrs/wk	50 SF/user	315 stas.	
Calisthenics	5.7%	1469	x 3 hrs/wk	4407 hrs/wk	50 SF/user	315 stas.	
FOTALS		5194		15581 hrs/wk	50 SF/user	315 stas.	31500hrs/wk
PEAK ATTENDANCE	90%	of Stations in Use	2			284 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Oper	ation =	55 hrs/wk	X	284 stas. =	15593hrs/wk
AVAILABLE PEAK CONTACT H	HOURS FOR PR	OGRAMMING		15593hrs/wk	minus	15581 hrs/wk =	12hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
8,750 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	766	x 2 hrs/wk	1531 hrs/wk	125 SF/user	70 stas.	
Kick Boxing	2.2%	557	x 2 hrs/wk	1114 hrs/wk	125 SF/user	70 stas.	
TOTALS		1322		2644.91 hrs/wk	125 SF/user	70 stas.	7000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use	2			56 stas.	
PEAK UTILIZATION RATE	50%	of Hours of Oper	ation =	50 hrs/wk	X	56 stas. =	2800hrs/wk
AVAILABLE PEAK CONTACT H	HOURS FOR PR	OGRAMMING		2800hrs/wk	minus	2644.9 hrs/wk =	155hrs/wk
Fitance Madala (Wainka/Candia)	A	Desirated	Darinad	Desired	Man	£44	A Slabla
Fitness Module (Weight/Cardio) 40,250 SF	Average Particip.	Projected Participants	Desired Times / Wk.	Desired Contact Hrs.	Max. SF/Person	Stations in Module	Available Contact Hrs.
Exercising with Equipment	24.5%	6345	x 3 hrs/wk	19034 hrs/wk	56 SF/user	721 stas.	Contact III's.
U II	24.370		X 3 IIIS/WK				501001 / 1
TOTALS	900/	6345 of Stations in Use		19034 hrs/wk	56 SF/user	721 stas.	72100hrs/wk
PEAK ATTENDANCE	80%			00 1/1-		577 stas.	51012b/b
PEAK UTILIZATION RATE	90%	of Hours of Oper	ation =	90 hrs/wk	x	577 stas. =	51912hrs/wk
AVAILABLE PEAK CONTACT H	HOURS FOR PR	OGRAMMING		51912hrs/wk	minus	19034 hrs/wk =	32878hrs/wk
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
40,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	•	x 3 hrs/wk	50416 hrs/wk	56 SF/user	721 stas.	
TOTALS	02.070	16805		50416 hrs/wk	56 SF/user	721 stas.	72100hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use	<u>, </u>	30410 III 3/ WK	30 S17usci	577 stas.	72100III 5/ WK
PEAK UTILIZATION RATE	90%	of Hours of Oper		90 hrs/wk	x	577 stas. =	51912hrs/wk
AVAILABLE PEAK CONTACT H				51912hrs/wk	minus	50416 hrs/wk =	1496hrs/wk
	Average	Projected	Desired	Desired	Max.	Stations	Available
73,800 SF	Particip.	Projected Participants	Times / Wk.	Desired Contact Hrs.	SF/Person	in Module	Available Contact Hrs.
73,800 SF Court Size is 50 x 94 for a total pl	Particip. laying area of:	Participants	Times / Wk.	Contact Hrs.	SF/Person 42,300 SF	in Module 9 court/s	
73,800 SF Court Size is 50 x 94 for a total pl Volleyball	Particip. laying area of: 6.4%	Participants	Times / Wk.	Contact Hrs. 4998 hrs/wk	SF/Person 42,300 SF 392 SF/user	in Module 9 court/s 144 players	
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball	Particip. laying area of: 6.4% 18.3%	Participants 1666 4741	Times / Wk.	Contact Hrs. 4998 hrs/wk 14222 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user	in Module 9 court/s 144 players 126 players	Contact Hrs.
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and	Particip. laying area of: 6.4% 18.3% Stations)	Participants 1666 4741 6407	Times / Wk. x 3 hrs/wk x 3 hrs/wk	Contact Hrs. 4998 hrs/wk	SF/Person 42,300 SF 392 SF/user	in Module 9 court/s 144 players 126 players 135 players	
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE	Particip. laying area of: 6.4% 18.3% Stations) 100%	Participants 1666 4741 6407 of Stations in Use	Times / Wk. x 3 hrs/wk x 3 hrs/wk	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user	in Module 9 court/s 144 players 126 players 135 players 135 players	Contact Hrs. 13500hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE	Particip. laying area of:	Participants 1666 4741 6407 of Stations in Use of Hours of Oper	Times / Wk. x 3 hrs/wk x 3 hrs/wk	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk	\$F/Person 42,300 \$F 392 \$F/user 470 \$F/user 431 \$F/user	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players	Contact Hrs. 13500hrs/wk 8100hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H	Particip. laying area of:	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING	Times / Wk. x 3 hrs/wk x 3 hrs/wk eation =	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 135 players = 19220 hrs/wk =	Contact Hrs. 13500hrs/wk 8100hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H	Particip. laying area of:	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING	Times / Wk. x 3 hrs/wk x 3 hrs/wk eation =	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 135 players = 19220 hrs/wk =	Contact Hrs. 13500hrs/wk 8100hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re	Particip. laying area of:	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING	Times / Wk. x 3 hrs/wk x 3 hrs/wk eation =	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 135 players = 19220 hrs/wk =	Contact Hrs. 13500hrs/wk 8100hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB	Times / Wk. x 3 hrs/wk x 3 hrs/wk eation = assumes 10 player	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus state in for each of	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 2000rt.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players fo	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 200rt. Stations	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for the state of the st	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player Desired Times / Wk.	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 20 players 135 players 135 players 135 players 19220 hrs/wk Stations in Module 28 occup.	13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs.
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for the state of the st	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player Desired Times / Wk. x 2 hrs/wk	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs.	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 135 players 135 players 5 players 15 players 17 players 18 players 19220 hrs/wk Stations in Module	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for Average Particip. 3.1%	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 806 of Stations in Use	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player Desired Times / Wk. x 2 hrs/wk	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 28 occup. 28 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for Average Particip. 3.1%	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 806 of Stations in Use of Hours of Oper	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player Desired Times / Wk. x 2 hrs/wk	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 28 occup.	13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs.
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for Average Particip. 3.1% 100% 50% HOURS FOR PR	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 806 of Stations in Use of Hours of Oper OGRAMMING	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player Desired Times / Wk. x 2 hrs/wk	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1612 hrs/wk 50 hrs/wk 1400hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user 212.5 SF/user	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 28 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk 1400hrs/wk -212hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H STORMAN CONTACT H LOTALS LOTALS PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H LOTALS	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for Average Particip. 3.1% 100% 50% HOURS FOR PR	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 806 of Stations in Use of Hours of Oper OGRAMMING	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = assumes 10 player Desired Times / Wk. x 2 hrs/wk	4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1612 hrs/wk 1400hrs/wk Desired	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 28 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk 1400hrs/wk -212hrs/wk Available
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT E Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT E AVAILABLE PEAK CONTACT E VIOLET OF TRACE VIOLET ON TACE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT E Jogging Track 6,400 SF	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR Otating players for Average Particip. 3.1% Average Particip. Average Particip.	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 806 of Stations in Use of Hours of Oper OGRAMMING	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk.	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1612 hrs/wk 1400hrs/wk Desired Contact Hrs.	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user 212.5 SF/user	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 20urt. Stations in Module 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 28 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk 1400hrs/wk -212hrs/wk
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track 6,400 SF Running / Jogging	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR Otating players for Average Particip. 3.1% Average Particip. 100% 50% HOURS FOR PR	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 3787	Times / Wk. x 3 hrs/wk x 3 hrs/wk e ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1612 hrs/wk 1400hrs/wk Desired Contact Hrs. 7574 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 20urt. Stations in Module 28 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk 1400hrs/wk -212hrs/wk Available
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT B Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT B UTILIZATION RATE AVAILABLE PEAK CONTACT B LOGging Track 6,400 SF Running / Jogging Exercise Walking	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR Otating players for Average Particip. 3.1% Average Particip. Average Particip.	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 806 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 3787 7438	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk.	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1612 hrs/wk 1400hrs/wk Desired Contact Hrs. 7574 hrs/wk 14876 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 20urt. Stations in Module 28 occup. 1612 hrs/wk = Stations in Module 150 occup. 150 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk 1400hrs/wk -212hrs/wk Available Contact Hrs.
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball FOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball FOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H UTILIZATION RATE AVAILABLE PEAK CONTACT H LOGging Track 6,400 SF Running / Jogging Exercise Walking FOTALS	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for Average Particip. 3.1% Average Particip. 14.6% 28.8%	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 3787 7438 11225	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1612 hrs/wk 1400hrs/wk Desired Contact Hrs. 7574 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 20urt. Stations in Module 28 occup. 1612 hrs/wk = Stations in Module 150 occup. 150 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk 1400hrs/wk -212hrs/wk Available
73,800 SF Court Size is 50 x 94 for a total pl Volleyball Basketball FOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball FOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H JOGGING Track 6,400 SF Running / Jogging Exercise Walking FOTALS PEAK ATTENDANCE	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip. 14.6% 28.8%	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 3787 7438 11225 of Stations in Use	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1400hrs/wk 1400hrs/wk 1400hrs/wk 2450 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each of Max. SF/Person 212.5 SF/user x minus Max. SF/Person	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 20urt. Stations in Module 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 28 occup. 1612 hrs/wk = Stations in Module 150 occup. 150 occup. 150 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk -212hrs/wk Available Contact Hrs.
Court Size is 50 x 94 for a total pl Volleyball Basketball TOTALS (Average for SF/Per and PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 re Racquetball Courts 5,950 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track	Particip. laying area of: 6.4% 18.3% Stations) 100% 60% HOURS FOR PR otating players for Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip. 14.6% 28.8%	Participants 1666 4741 6407 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 806 806 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 3787 7438 11225 of Stations in Use of Hours of Oper	Times / Wk. x 3 hrs/wk x 3 hrs/wk ation = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk	Contact Hrs. 4998 hrs/wk 14222 hrs/wk 19220 hrs/wk 60 hrs/wk 8100hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1612 hrs/wk 1612 hrs/wk 1400hrs/wk Desired Contact Hrs. 7574 hrs/wk 14876 hrs/wk	SF/Person 42,300 SF 392 SF/user 470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	in Module 9 court/s 144 players 126 players 135 players 135 players 135 players 135 players 135 players 20urt. Stations in Module 28 occup. 1612 hrs/wk = Stations in Module 150 occup. 150 occup.	Contact Hrs. 13500hrs/wk 8100hrs/wk -11120hrs/wk Available Contact Hrs. 2800hrs/wk 1400hrs/wk -212hrs/wk Available Contact Hrs.

Maximum authorized population of 40,000 - 100 hours of operation per week:

Base Population:	(35,001-40,000)					
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
18,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	3363	x 3 hrs/wk	10089 hrs/wk	50 SF/user	360 stas.	
Step Aerobics	3.0%	894	x 3 hrs/wk	2681 hrs/wk	50 SF/user	360 stas.	
Calisthenics	5.7%	1679	x 3 hrs/wk	5037 hrs/wk	50 SF/user	360 stas.	
TOTALS		5935		17806 hrs/wk	50 SF/user	360 stas.	36000hrs/wk
PEAK ATTENDANCE	90%	of Stations in Use				324 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Oper	ration =	55 hrs/wk	X	324 stas. =	17820hrs/wk
AVAILABLE PEAK CONTACT H	OURS FOR PR	OGRAMMING		17820hrs/wk	minus	17806 hrs/wk =	14hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
10,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	875	x 2 hrs/wk	1750 hrs/wk	125 SF/user	80 stas.	
Kick Boxing	2.2%	636	x 2 hrs/wk	1273 hrs/wk	125 SF/user	80 stas.	
TOTALS		1511		3022.76 hrs/wk	125 SF/user	80 stas.	8000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use	e	evaziro misji wa	120 0170001	64 stas.	00001115/ 1111
PEAK UTILIZATION RATE	50%	of Hours of Open		50 hrs/wk	x	64 stas. =	3200hrs/wk
AVAILABLE PEAK CONTACT H				3200hrs/wk	minus	3022.8 hrs/wk =	177hrs/wk
	och ron in	0 011111111111		02001113, 1111		00210 HIS WI	1771110, 1111
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations	Available
46,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%	7251	x 3 hrs/wk	21753 hrs/wk	56 SF/user	824 stas.	
TOTALS		7251		21753 hrs/wk	56 SF/user	824 stas.	82400hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use	e			659 stas.	
PEAK UTILIZATION RATE	90%	of Hours of Oper	ration =	90 hrs/wk	X	659 stas. =	59328hrs/wk
AVAILABLE PEAK CONTACT H	OURS FOR PR	OGRAMMING		59328hrs/wk	minus	21753 hrs/wk =	37575hrs/wk
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
46,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	19206	x 3 hrs/wk	57618 hrs/wk	56 SF/user	824 stas.	
TOTALS		19206		57618 hrs/wk	56 SF/user	824 stas.	82400hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use				659 stas.	
PEAK UTILIZATION RATE	90%	of Hours of Oper	ration =	90 hrs/wk	X	659 stas. =	59328hrs/wk
AVAILABLE PEAK CONTACT H	OURS FOR PR	OGRAMMING		59328hrs/wk	minus	57618 hrs/wk =	1710hrs/wk
Gymnasium Module	Average	Projected	Desired	Desired	Max.	Stations	Available
82,200 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Court Size is 50 x 94 for a total pla		Turterpunts	1111037 1111	Contact III Si	47,000 SF	10 court/s	00111101
Volleyball	6.4%				,		
Basketball		1904	x 3 hrs/wk	5712.hrs/wk	392 SF/user	160 players	
		1904 5418	x 3 hrs/wk	5712 hrs/wk	392 SF/user	160 players	
	18.3%	5418	x 3 hrs/wk x 3 hrs/wk	16253 hrs/wk	470 SF/user	140 players	15000hrs/wk
TOTALS (Average for SF/Per and S	18.3% Stations)	5418 7322	x 3 hrs/wk			140 players 150 players	15000hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE	18.3% Stations) 100%	5418 7322 of Stations in Use	x 3 hrs/wk	16253 hrs/wk 21966 hrs/wk	470 SF/user 431 SF/user	140 players 150 players 150 players	
TOTALS (Average for SF/Per and S PEAK ATTENDANCE PEAK UTILIZATION RATE	18.3% Stations) 100% 60%	7322 of Stations in Use of Hours of Oper	x 3 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk	470 SF/user 431 SF/user x	140 players 150 players 150 players 150 players =	9000hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE	18.3% Stations) 100% 60% OURS FOR PR	5418 7322 of Stations in Use of Hours of Open OGRAMMING	x 3 hrs/wk e ration =	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk	470 SF/user 431 SF/user x minus	140 players 150 players 150 players 150 players = 21966 hrs/wk =	9000hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro	18.3% Stations) 100% 60% OURS FOR PR Otating players for	5418 7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB	x 3 hrs/wk eration = assumes 10 player	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro	470 SF/user 431 SF/user x minus tate in for each	140 players 150 players 150 players 150 players 150 players = 21966 hrs/wk = court.	9000hrs/wk -12966hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts	18.3% Stations) 100% 60% OURS FOR PR otating players for	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB	x 3 hrs/wk e ration = assumes 10 player Desired	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired	470 SF/user 431 SF/user x minus tate in for each of Max.	140 players 150 players 150 players 150 players 150 players = 21966 hrs/wk = court. Stations	9000hrs/wk -12966hrs/wk Available
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF	18.3% Stations) 100% 60% OURS FOR PR otating players for Average Particip.	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk.	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs.	470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module	9000hrs/wk -12966hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts	18.3% Stations) 100% 60% OURS FOR PR otating players for	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921	x 3 hrs/wk e ration = assumes 10 player Desired	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of Max.	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup.	9000hrs/wk -12966hrs/wk Available
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS	18.3% Stations) 100% 60% OURS FOR PR stating players for Average Particip. 3.1%	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs.	470 SF/user 431 SF/user x minus tate in for each of Max. SF/Person	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup.	9000hrs/wk -12966hrs/wk Available
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE	18.3% Stations) 100% 60% OURS FOR PR stating players for Average Particip. 3.1%	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second of the	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	18.3% Stations) 100% 60% OURS FOR PR stating players for the particip. 3.1% 100% 50%	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 50 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second of the	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE	18.3% Stations) 100% 60% OURS FOR PR stating players for the particip. 3.1% 100% 50%	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second of the	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H	18.3% Stations) 100% 60% OURS FOR PR stating players for the p	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper OGRAMMING	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 50 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second of the	140 players 150 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup. 32 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk 1600hrs/wk -243hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	18.3% Stations) 100% 60% OURS FOR PR stating players for the particip. 3.1% 100% 50%	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration =	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 50 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second of the	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track	18.3% Stations) 100% 60% OURS FOR PR Mating players for Particip. 3.1% 100% 50% OURS FOR PR Average	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper OGRAMMING Projected	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration =	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 50 hrs/wk 1600hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup. 32 occup. 35 occup. 35 occup. 35 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk 1600hrs/wk -243hrs/wk Available
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track 6,400 SF	18.3% Stations) 100% 60% OURS FOR PR Outsing players for the	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper OGRAMMING Projected Participants	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk ration = Desired Times / Wk.	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 1600hrs/wk Desired Contact Hrs.	470 SF/user 431 SF/user x minus tate in for each of the second	140 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup. 32 occup. 55 occup. Stations in Module 150 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk 1600hrs/wk -243hrs/wk Available
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track 6,400 SF Running / Jogging Exercise Walking	18.3% Stations) 100% 60% OURS FOR PR otating players for the p	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 4328	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk ration = Desired Times / Wk. x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 1600hrs/wk Desired Contact Hrs. 8656 hrs/wk 17001 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second	140 players 150 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup. 52 occup. 53 occup. 543 hrs/wk = Stations in Module 150 occup. 150 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk 1600hrs/wk -243hrs/wk Available Contact Hrs.
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	18.3% Stations) 100% 60% OURS FOR PR Outsing players for the p	7322 of Stations in Use of Hours of Oper OGRAMMING Or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 4328 8501 12828	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 1600hrs/wk Desired Contact Hrs. 8656 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second	140 players 150 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup. 52 occup. 53 occup. 543 hrs/wk = Stations in Module 150 occup. 150 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk 1600hrs/wk -243hrs/wk Available
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS PEAK ATTENDANCE	18.3% Stations) 100% 60% OURS FOR PR otating players for the p	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 4328 8501 12828 of Stations in Use	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 1600hrs/wk Desired Contact Hrs. 8656 hrs/wk 17001 hrs/wk 25657 hrs/wk	470 SF/user x minus tate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max. SF/Person	140 players 150 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup. 55 occup. Stations in Module 150 occup. 150 occup. 150 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk 1600hrs/wk -243hrs/wk Available Contact Hrs.
TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Note: VB assumes 12 players + 4 ro Racquetball Courts 6,800 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT H Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	18.3% Stations) 100% 60% COURS FOR PR Dataing players for the particip. 3.1% 100% 50% COURS FOR PR Average Particip. 14.6% 28.8%	7322 of Stations in Use of Hours of Oper OGRAMMING or each court. BB Projected Participants 921 921 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 4328 8501 12828 of Stations in Use of Hours of Oper	x 3 hrs/wk e ration = assumes 10 player Desired Times / Wk. x 2 hrs/wk ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	16253 hrs/wk 21966 hrs/wk 60 hrs/wk 9000hrs/wk rs + 4 waiting to ro Desired Contact Hrs. 1843 hrs/wk 1843 hrs/wk 1600hrs/wk Desired Contact Hrs. 8656 hrs/wk 17001 hrs/wk	470 SF/user 431 SF/user x minus tate in for each of the second	140 players 150 players 150 players 150 players 150 players 21966 hrs/wk = court. Stations in Module 32 occup. 32 occup. 32 occup. 32 occup. 52 occup. 53 occup. 543 hrs/wk = Stations in Module 150 occup. 150 occup. 150 occup.	9000hrs/wk -12966hrs/wk Available Contact Hrs. 3200hrs/wk 1600hrs/wk -243hrs/wk Available Contact Hrs.

Maximum authorized population of 45,000 - 100 hours of operation per week:

Base Population:	(40,001-45,00	0)					
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
20,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	3783	x 3 hrs/wk	11350 hrs/wk	50 SF/user	405 stas.	
Step Aerobics	3.0%	1005	x 3 hrs/wk	3016 hrs/wk	50 SF/user	405 stas.	
Calisthenics	5.7%	1889	x 3 hrs/wk	5667 hrs/wk	50 SF/user	405 stas.	
TOTALS		6677		20032 hrs/wk	50 SF/user	405 stas.	40500hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	se			365 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Ope	ration =	55 hrs/wk	x	365 stas. =	20048hrs/wk
AVAILABLE PEAK CONTACT HOU	URS FOR PI	ROGRAMMING		20048hrs/wk	minus	20032 hrs/wk =	15hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
11,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	984	x 2 hrs/wk	1969 hrs/wk	125 SF/user	90 stas.	
Kick Boxing	2.2%	716	x 2 hrs/wk	1432 hrs/wk	125 SF/user	90 stas.	
TOTALS		1700		3400.6 hrs/wk	125 SF/user	90 stas.	9000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	se			72 stas.	
PEAK UTILIZATION RATE	50%	of Hours of Ope		50 hrs/wk	X	72 stas. =	3600hrs/wk
AVAILABLE PEAK CONTACT HOU				3600hrs/wk	minus	3400.6 hrs/wk =	199hrs/wk
AVAILABLE LEAN CONTROL NO.	CROTORII	to one in min to		Social Si WK	IIIIIus	540010 HIS/ WK =	1))IIIS/WK
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations	Available
51,750 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%	8158	x 3 hrs/wk	24473 hrs/wk	56 SF/user	927 stas.	
TOTALS		8158		24473 hrs/wk	56 SF/user	927 stas.	92700hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	Se Se	24473 III 3/ WK	30 517usci	742 stas.	72700H13/WK
PEAK UTILIZATION RATE	90%	of Hours of Ope		90 hrs/wk	x	742 stas. =	66744hrs/wk
AVAILABLE PEAK CONTACT HOU			rauon –	66744hrs/wk	minus	24473 hrs/wk =	42271hrs/wk
AVAILABLE I EAR CONTACT HO	UKS FUK I I	OGRAMMING		00/44IIIS/WK	iiiiius	244/3 III S/WK -	422/11115/WK
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
51,750 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	21607	x 3 hrs/wk	64820 hrs/wk	56 SF/user	927 stas.	contact III s.
	03.070		A J IIIS/WK				027001 / 1
TOTALS	000/	21607		64820 hrs/wk	56 SF/user	927 stas.	92700hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us				742 stas.	
PEAK ATTENDANCE PEAK UTILIZATION RATE	90%	of Stations in Us of Hours of Ope		90 hrs/wk	X	742 stas. =	66744hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us of Hours of Ope				742 stas.	
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOL	90% URS FOR PE	of Stations in Us of Hours of Ope ROGRAMMING	ration =	90 hrs/wk 66744hrs/wk	x minus	742 stas. = 742 stas. = 64820 hrs/wk =	66744hrs/wk 1924hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOL Gymnasium Module	90% URS FOR PI Average	of Stations in Us of Hours of Ope COGRAMMING Projected	ration = Desired	90 hrs/wk 66744hrs/wk Desired	x minus Max.	742 stas. = 64820 hrs/wk =	66744hrs/wk 1924hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOT Gymnasium Module 90,600 SF	90% URS FOR PI Average Particip.	of Stations in Us of Hours of Ope ROGRAMMING	ration =	90 hrs/wk 66744hrs/wk	x minus Max. SF/Person	742 stas. = 64820 hrs/wk = Stations in Module	66744hrs/wk 1924hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total plays	90% URS FOR PE Average Particip. ing area of:	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 66744hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 51,700 SF	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s	66744hrs/wk 1924hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball	90% URS FOR PH Average Particip. ing area of: 6.4%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants	Desired Times / Wk.	90 hrs/wk 66744hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 51,700 SF 392 SF/user	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players	66744hrs/wk 1924hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playi Volleyball Basketball	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095	Desired Times / Wk.	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players	66744hrs/wk 1924hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Sta	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% ttions)	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 51,700 SF 392 SF/user	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players	66744hrs/wk 1924hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE	90% URS FOR PP Average Particip. ing area of: 6.4% 18.3% ttions) 100%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE)	90% URS FOR PP Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players = 165 pla	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE) PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD	90% URS FOR PE Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60% URS FOR PE	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 165 players = 24711 hrs/wk =	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE)	90% URS FOR PE Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60% URS FOR PE	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk see	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user	742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 165 players = 24711 hrs/wk =	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotal	90% URS FOR PP Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60% URS FOR PP tting players f	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING For each court. BB	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = 3 assumes 10 player	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 165 players 24711 hrs/wk = court.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOW Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playir Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOW Note: VB assumes 12 players + 4 rotal Racquetball Courts	90% URS FOR PI Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60% URS FOR PI ting players f	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING For each court. BB	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = 3 assumes 10 player Desired	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 165 players 24711 hrs/wk = court.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOW Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playir Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOW Note: VB assumes 12 players + 4 rotal Racquetball Courts 7,650 SF	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PF ting players f Average Particip.	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING For each court. BB Projected Participants	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk.	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs.	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 470 SF/user 431 SF/user x minus Max. SF/Person	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotate Racquetball Courts 7,650 SF Racquetball	90% URS FOR PI Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60% URS FOR PI ting players f	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING For each court. BB Projected Participants 1036	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = 3 assumes 10 player Desired	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2073 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playir Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotat Racquetball Courts 7,650 SF Racquetball TOTALS	90% URS FOR PI Average Particip. ing area of: 6.4% 18.3% titions) 100% 60% URS FOR PI ting players f Average Particip. 3.1%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Or each court. BB Projected Participants 1036 1036	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs.	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 470 SF/user 431 SF/user x minus Max. SF/Person	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing Volleyball Basketball TOTALS (Average for SF/Per and Stan PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotate Racquetball Courts 7,650 SF Racquetball	Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PF ting players f Average Particip.	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING For each court. BB Projected Participants 1036	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2073 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playir Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotat Racquetball Courts 7,650 SF Racquetball TOTALS	90% URS FOR PI Average Particip. ing area of: 6.4% 18.3% titions) 100% 60% URS FOR PI ting players f Average Particip. 3.1%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Or each court. BB Projected Participants 1036 1036	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2073 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playir Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotat Racquetball Courts 7,650 SF Racquetball TOTALS PEAK ATTENDANCE	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PF ting players f Average Particip. 3.1% 100% 50%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Or each court. BB Projected Participants 1036 1036 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2073 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 470 SF/user 431 SF/user x minus Max. SF/Person 212.5 SF/user	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOW Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOW Note: VB assumes 12 players + 4 rotate Racquetball Courts 7,650 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% ations) 100% 60% URS FOR PF ting players f Average Particip. 3.1% 100% 50%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Or each court. BB Projected Participants 1036 1036 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = B assumes 10 player Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Note: VB assumes 12 players + 4 rotat Racquetball Courts 7,650 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOU Jogging Track	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% itions) 100% 60% URS FOR PF ting players f Average Particip. 3.1% 100% 50% URS FOR PF Average	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk se ration =	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk =	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotate Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Jogging Track 6,400 SF	90% URS FOR PI Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PI ting players f Average Particip. 3.1% 100% 50% URS FOR PI Average Particip. 4	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING For each court. BB Projected Participants 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk se ration = Desired Times / Wk.	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk = Stations in Module	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotat Racquetball Courts 7,650 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Jogging Track 6,400 SF Running / Jogging	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PF ting players f Average Particip. 3.1% 100% 50% URS FOR PF Average Particip. 14.6%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1036 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 4869	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk Desired Contact Hrs. 9/37 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk = Stations in Module 150 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotate Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Jogging Track 6,400 SF Running / Jogging Exercise Walking	90% URS FOR PI Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PI ting players f Average Particip. 3.1% 100% 50% URS FOR PI Average Particip. 4	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Frojected Participants 1036 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 4869 9563	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk se ration = Desired Times / Wk.	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk = Stations in Module	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotat Racquetball Courts 7,650 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Jogging Track 6,400 SF Running / Jogging	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PF ting players f Average Particip. 3.1% 100% 50% URS FOR PF Average Particip. 14.6%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1036 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 4869	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk Desired Contact Hrs. 9/37 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk = Stations in Module 150 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playing volleyball Basketball TOTALS (Average for SF/Per and State PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotate Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Jogging Track 6,400 SF Running / Jogging Exercise Walking	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60% URS FOR PF ting players f Average Particip. 3.1% 100% 50% URS FOR PF Average Particip. 14.6% 28.8%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Frojected Participants 1036 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 4869 9563	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk Desired Contact Hrs. 9/37 hrs/wk 19127 hrs/wk 19127 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk = Stations in Module 150 occup. 150 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotat Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	90% URS FOR PP Average Particip. ing area of: 6.4% 18.3% tions) 100% 60% URS FOR PP ting players f Average Particip. 3.1% 100% 50% URS FOR PP Average Particip. 14.6% 28.8%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 4869 9563 14432	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk Desired Contact Hrs. 9737 hrs/wk 19127 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk = Stations in Module 150 occup. 150 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Gymnasium Module 90,600 SF Court Size is 50 x 94 for a total playi Volleyball Basketball TOTALS (Average for SF/Per and Sta PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Note: VB assumes 12 players + 4 rotat Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HOD Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS PEAK ATTENDANCE	90% URS FOR PF Average Particip. ing area of: 6.4% 18.3% ttions) 100% 60% URS FOR PF ting players f Average Particip. 3.1% 100% 50% URS FOR PF Average Particip. 14.6% 28.8%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 2142 6095 8237 of Stations in Us of Hours of Ope ROGRAMMING Frojected Participants 1036 1036 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 4869 9563 14432 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 66744hrs/wk Desired Contact Hrs. 6426 hrs/wk 18285 hrs/wk 24711 hrs/wk 60 hrs/wk 9900hrs/wk s + 4 waiting to re Desired Contact Hrs. 2073 hrs/wk 2073 hrs/wk 1800hrs/wk Desired Contact Hrs. 9/37 hrs/wk 19127 hrs/wk 19127 hrs/wk	x minus Max. SF/Person 51,700 SF 392 SF/user 470 SF/user 431 SF/user x minus otate in for each of the second of	742 stas. 742 stas. = 64820 hrs/wk = Stations in Module 11 court/s 176 players 154 players 165 players 165 players 24711 hrs/wk = court. Stations in Module 36 occup. 36 occup. 36 occup. 36 occup. 2073 hrs/wk = Stations in Module 150 occup. 150 occup. 150 occup.	66744hrs/wk 1924hrs/wk Available Contact Hrs. 16500hrs/wk 9900hrs/wk -14811hrs/wk Available Contact Hrs. 3600hrs/wk -273hrs/wk Available Contact Hrs.

Maximum authorized population of 50,000 - 100 hours of operation per week:

Base Population:	(45,001-50,000)					
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
22,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	4204	x 3 hrs/wk	12611 hrs/wk	50 SF/user	450 stas.	
Step Aerobics	3.0%	1117	x 3 hrs/wk	3351 hrs/wk	50 SF/user	450 stas.	
Calisthenics	5.7%	2099	x 3 hrs/wk	6296 hrs/wk	50 SF/user	450 stas.	
TOTALS	2.7,0	7419	J. III. J. VIII.	22258 hrs/wk	50 SF/user	450 stas.	45000hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	0	22230 III S/ W K	30 SF/usei	405 stas.	45000III S/ WK
				551 / 1			222551 / 1
PEAK UTILIZATION RATE	55%	of Hours of Oper	ration =	55 hrs/wk	<u>x</u>	405 stas. =	22275hrs/wk
AVAILABLE PEAK CONTACT H	HOURS FOR PR	OGRAMMING		22275hrs/wk	minus	22258 hrs/wk =	17hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
12500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	1094	x 2 hrs/wk	2187 hrs/wk	125 SF/user	100 stas.	
Kick Boxing	2.2%	796	x 2 hrs/wk	1591 hrs/wk	125 SF/user	100 stas.	
TOTALS		1889		3778.45 hrs/wk	125 SF/user	100 stas.	10000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e			80 stas.	
PEAK UTILIZATION RATE	50%	of Hours of Open	ration =	50 hrs/wk	X	80 stas. =	4000hrs/wk
AVAILABLE PEAK CONTACT F	HOURS FOR PR	OGRAMMING		4000hrs/wk	minus	3778.4 hrs/wk =	222hrs/wk
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations	Available
57,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%	9064	x 3 hrs/wk	27192 hrs/wk	56 SF/user	1030 stas.	
TOTALS		9064		27192 hrs/wk	56 SF/user	1030 stas.	103000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	e			824 stas.	
PEAK UTILIZATION RATE	90%	of Hours of Open		90 hrs/wk	X	824 stas. =	74160hrs/wk
AVAILABLE PEAK CONTACT H				74160hrs/wk	minus	27192 hrs/wk =	46968hrs/wk
AVAILABLE I LAR CONTACT I	IOURSTORTR	OGRAMMING		74100III 3/ WK	iiiius	2/1/2 III.5/ WK =	40200H 3/ WK
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
57,500 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	24007	x 3 hrs/wk	72022 hrs/wk	56 SF/user	1030 stas.	contact IIIs.
<u> </u>	03.0%		X 3 IIIS/WK				1020001 / 1
TOTALS	000/	24007		72022 hrs/wk	56 SF/user	1030 stas.	103000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us				824 stas.	
PEAK UTILIZATION RATE	90%	of Hours of Oper	ration =	90 hrs/wk	X	824 stas. =	74160hrs/wk
AVAILABLE PEAK CONTACT F	HOURS FOR PR	OGRAMMING		74160hrs/wk	minus	72022 hrs/wk =	2138hrs/wk
Gymnasium Module	Average	Projected	Desired	Desired	Max.	Stations	Available
99,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Court Size is 50 x 94 for a total pl					56,400 SF	12 court/s	
Volleyball	6.4%	2380	x 3 hrs/wk	7140 hrs/wk	392 SF/user	192 players	
Basketball	18.3%	6772	x 3 hrs/wk	20317 hrs/wk	470 SF/user	168 players	
TOTALS (Average for SF/Per and	Stations)	9152		27457 hrs/wk	431 SF/user	180 players	18000hrs/wk
PEAK ATTENDANCE	100%	of Stations in Us	e			180 players	
PEAK UTILIZATION RATE	600/	0.0	_		X	180 players =	10800hrs/wk
	60%	of Hours of Oper	ration =	60 hrs/wk	А		
AVAILABLE PEAK CONTACT H			ration =	60 hrs/wk 10800hrs/wk	minus	27457 hrs/wk =	-16657hrs/wk
	HOURS FOR PR	OGRAMMING		10800hrs/wk	minus		-16657hrs/wk
	HOURS FOR PR	OGRAMMING		10800hrs/wk	minus		-16657hrs/wk
Note: VB assumes 12 players + 4 re	HOURS FOR PR	OGRAMMING		10800hrs/wk	minus		-16657hrs/wk Available
Note: VB assumes 12 players + 4 re	HOURS FOR PR otating players fo	OGRAMMING or each court. BB	assumes 10 player	10800hrs/wk s + 4 waiting to ro	minus otate in for each	court.	
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF	HOURS FOR PR otating players fo Average	OGRAMMING or each court. BB Projected Participants	assumes 10 player Desired Times / Wk.	10800hrs/wk s + 4 waiting to ro Desired	minus otate in for each Max. SF/Person	court. Stations in Module	Available
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball	HOURS FOR PR otating players fo Average Particip.	OGRAMMING or each court. BB Projected Participants 1152	assumes 10 player	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user	Stations in Module 40 occup.	Available Contact Hrs.
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS	Average Particip. 3.1%	OGRAMMING or each court. BB Projected Participants 1152 1152	assumes 10 player Desired Times / Wk. x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs.	minus otate in for each Max. SF/Person	Stations in Module 40 occup.	Available
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE	Average Particip. 3.1%	OGRAMMING or each court. BB Projected Participants 1152 1152 of Stations in Us	assumes 10 player Desired Times / Wk. x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user	Stations in Module 40 occup. 40 occup.	Available Contact Hrs.
Note: VB assumes 12 players + 4 researches Racquetball Courts 8,500 SF Racquetball FOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	Average Particip. 3.1% 100% 50%	OGRAMMING or each court. BB Projected Participants 1152 1152 of Stations in Us of Hours of Open	assumes 10 player Desired Times / Wk. x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user	Stations in Module 40 occup. 40 occup. 40 occup. 40 occup.	Available Contact Hrs. 4000hrs/wk
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE	Average Particip. 3.1% 100% 50%	OGRAMMING or each court. BB Projected Participants 1152 1152 of Stations in Us of Hours of Open	assumes 10 player Desired Times / Wk. x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user	Stations in Module 40 occup. 40 occup.	Available Contact Hrs.
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT F	Average Particip. 3.1% 100% 50% HOURS FOR PR	OGRAMMING Projected Participants 1152 1152 of Stations in Use of Hours of Oper	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration =	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 50 hrs/wk 2000hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus	Stations in Module 40 occup. 40 occup. 40 occup. 40 occup. 2303 hrs/wk =	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT F	Average Particip. 3.1% 100% 50% HOURS FOR PR	OGRAMMING Projected Participants 1152 1152 of Stations in Us of Hours of Oper OGRAMMING Projected	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration =	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 50 hrs/wk 2000hrs/wk Desired	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	Stations in Module 40 occup. 40 occup. 40 occup. 40 occup. 2303 hrs/wk =	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk Available
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT F Logging Track 6,400 SF	Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip.	OGRAMMING Projected Participants 1152 1152 of Stations in Us of Hours of Oper OGRAMMING Projected Participants	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk.	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 50 hrs/wk 2000hrs/wk Desired Contact Hrs.	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus	Stations in Module 40 occup. 40 occup. 40 occup. 2303 hrs/wk = Stations in Module	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT F Understand Service Se	Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip. 14.6%	Projected Participants 1152 1152 of Stations in Us of Hours of Oper OGRAMMING Projected Participants 5410	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk. x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 2000hrs/wk Desired Contact Hrs. 10819 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	Stations in Module 40 occup. 40 occup. 40 occup. 2303 hrs/wk = Stations in Module 150 occup.	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk Available
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT F Logging Track 6,400 SF Running / Jogging Exercise Walking	Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip.	Projected Participants 1152 1152 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 5410 10626	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk.	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 2000hrs/wk Desired Contact Hrs. 10819 hrs/wk 21252 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	Stations in Module 40 occup. 40 occup. 40 occup. 2303 hrs/wk = Stations in Module 150 occup. 150 occup.	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk Available Contact Hrs.
Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT F Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip. 14.6% 28.8%	Projected Participants 1152 1152 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 5410 10626 16036	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 2000hrs/wk Desired Contact Hrs. 10819 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	Stations in Module 40 occup. 40 occup. 40 occup. 2303 hrs/wk = Stations in Module 150 occup. 150 occup.	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk Available
Note: VB assumes 12 players + 4 re Racquetball Courts 8,500 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT F Jogging Track 6,400 SF Running / Jogging Exercise Walking	Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip. 14.6%	Projected Participants 1152 1152 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 5410 10626	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 2000hrs/wk Desired Contact Hrs. 10819 hrs/wk 21252 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	Stations in Module 40 occup. 40 occup. 40 occup. 2303 hrs/wk = Stations in Module 150 occup. 150 occup.	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk Available Contact Hrs.
Note: VB assumes 12 players + 4 research to the second sec	Average Particip. 3.1% 100% 50% HOURS FOR PR Average Particip. 14.6% 28.8%	Projected Participants 1152 1152 of Stations in Use of Hours of Oper OGRAMMING Projected Participants 5410 10626 16036	assumes 10 player Desired Times / Wk. x 2 hrs/wk e ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk	10800hrs/wk s + 4 waiting to ro Desired Contact Hrs. 2303 hrs/wk 2303 hrs/wk 2000hrs/wk Desired Contact Hrs. 10819 hrs/wk 21252 hrs/wk	minus otate in for each Max. SF/Person 212.5 SF/user 212.5 SF/user x minus Max.	Stations in Module 40 occup. 40 occup. 40 occup. 2303 hrs/wk = Stations in Module 150 occup. 150 occup.	Available Contact Hrs. 4000hrs/wk 2000hrs/wk -303hrs/wk Available Contact Hrs.

Maximum authorized population of 55,000 - 100 hours of operation per week:

(50,001-55,000)

Base Population:

base i opulation.	(50,001-55,000)					
Aerobic Exercise 24,750 SF	Average	Projected	Desired	Desired	Max.	Stations	Available
· · · · · · · · · · · · · · · · · · ·	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%		x 3 hrs/wk	13872 hrs/wk	50 SF/user	495 stas.	
Step Aerobics	3.0%		x 3 hrs/wk	3686 hrs/wk	50 SF/user	495 stas.	
Calisthenics	5.7%		x 3 hrs/wk	6926 hrs/wk	50 SF/user	495 stas.	
TOTALS	000/	8161		24484 hrs/wk	50 SF/user	495 stas.	49500hrs/wk
PEAK ATTENDANCE	90%	of Stations in Use				446 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Opera	ition =	55 hrs/wk	X	446 stas. =	24503hrs/wk
AVAILABLE PEAK CONTACT HO	URS FOR PRO	OGRAMMING		24503hrs/wk	minus	24484 hrs/wk =	19hrs/wk
N C		D 1 4 1	ъ. т	ъ. т		Gr. 4°	
Non-Structured Exercise 13,750 SF	Average Particip.	Projected Participants	Desired Times / Wk.	Desired Contact Hrs.	Max. SF/Person	Stations in Module	Available Contact Hrs.
Martial Arts	3.0%	•	x 2 hrs/wk	2406 hrs/wk	125 SF/user	110 stas.	Contact III's.
Kick Boxing	2.2%		x 2 hrs/wk	1750 hrs/wk	125 SF/user	110 stas. 110 stas.	
TOTALS	2.270	2078	X Z IIIS/WK	4156.29 hrs/wk			11000hwa/zzilz
PEAK ATTENDANCE	80%	of Stations in Use		4150.29 nrs/wk	125 SF/user	110 stas. 88 stas.	11000hrs/wk
PEAK UTILIZATION RATE	50%		ution –	50 has/wik			4400hwa/zzilz
AVAILABLE PEAK CONTACT HO		of Hours of Opera	ition =	50 hrs/wk	X minus	88 stas. =	4400hrs/wk
AVAILABLE PEAR CONTACT HO	UKS FUR PRO	OGRAMMING		4400hrs/wk	minus	4156.3 hrs/wk =	244hrs/wk
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations	Available
63,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%		x 3 hrs/wk	29911 hrs/wk	56 SF/user	1133 stas.	
TOTALS	2.1.570	9970		29911 hrs/wk	56 SF/user	1133 stas.	113300hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use		2))11 III3/WK	30 5174301	906 stas.	113300III3/ WK
PEAK UTILIZATION RATE	90%	of Hours of Opera	ntion =	90 hrs/wk	x	906 stas. =	81576hrs/wk
AVAILABLE PEAK CONTACT HO			-	81576hrs/wk	minus	29911 hrs/wk =	51665hrs/wk
AVAILE I DE LE LE LE CONTINCT HO	CROTORTR	OGICII/II/III/O		OIC / OIII S/ WK	IIIIIus	27711 III 5/ WK =	21002HIS/WR
Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
63,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	26408	x 3 hrs/wk	79224 hrs/wk	56 SF/user	1133 stas.	1
TOTALS		26408		79224 hrs/wk	56 SF/user	1133 stas.	113300hrs/wk
PEAK ATTENDANCE	80%	of Stations in Use		77224 III 5/ WK	20 SI / USCI	906 stas.	110000IIIS/WK
PEAK UTILIZATION RATE	90%	of Hours of Opera	ntion =	90 hrs/wk	х	906 stas. =	81576hrs/wk
AVAILABLE PEAK CONTACT HO				81576hrs/wk	minus	79224 hrs/wk =	2352hrs/wk
Gymnasium Module	Average	Projected	Desired	Desired	Max.	Stations	Available
107,400 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Court Size is 50 x 94 for a total play	ing area of:				61,100 SF	13 court/s	
Volleyball	6.4%	2618	x 3 hrs/wk	7854 hrs/wk	392 SF/user	208 players	
Basketball	18.3%	7449	x 3 hrs/wk	22348 hrs/wk	470 SF/user	182 players	
TOTALS (Average for SF/Per and Sta	ations)	10068		30203 hrs/wk	431 SF/user	195 players	19500hrs/wk
PEAK ATTENDANCE	100%	of Stations in Use				195 players	
PEAK UTILIZATION RATE	60%	of Hours of Opera	ntion =	60 hrs/wk	X	195 players =	11700hrs/wk
AVAILABLE PEAK CONTACT HO	URS FOR PR	OGRAMMING		11700hrs/wk	minus	30203 hrs/wk =	-18503hrs/wk
Note: VB assumes 12 players + 4 rota	ting players fo	r each court. BB a	ssumes 10 player	rs + 4 waiting to ro	otate in for each	court.	_
Racquetball Courts	Average	Projected	Desired	Desired	Max.	Stations	Available
9,350 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Racquetball	3.1%	1267	x 2 hrs/wk	2534 hrs/wk	212.5 SF/user	44 occup.	
TOTALS		1267		2534 hrs/wk	212.5 SF/user	44 occup.	4400hrs/wk
PEAK ATTENDANCE	100%	of Stations in Use				44 occup.	
PEAK UTILIZATION RATE	50%	of Hours of Opera	ntion =	50 hrs/wk	X	44 occup. =	2200hrs/wk
AVAILABLE PEAK CONTACT HO	URS FOR PR	OGRAMMING		2200hrs/wk	minus	2534 hrs/wk =	-334hrs/wk
Jogging Track	Average	Projected	Desired	Desired	Max.	Stations	Available
6,400 SF	Particip.	Participants 5051	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Running / Jogging	14.6%		x 2 hrs/wk	11901 hrs/wk		150 occup.	
Exercise Walking	28.8%		x 2 hrs/wk	23377 hrs/wk		150 occup.	450001
TOTALS	6001	17639		35278 hrs/wk		150 occup.	15000hrs/wk
PEAK ATTENDANCE	60%	of Stations in Use		05 - 1		90 occup.	
PEAK UTILIZATION RATE	80%	of Hours of Opera	tion =	80 hrs/wk	X	90 occup. =	7200hrs/wk
AVAILABLE PEAK CONTACT HO	URS FOR PR	OGRAMMING		7200hrs/wk	minus	35278 hrs/wk =	-28078hrs/wk

Maximum authorized population of $60,\!000$ - 100 hours of operation per week:

Projected Proj	Base Population:	(55,001-60,000	0)					
Acrobic Servicking	-			Desired	Desired	Max.	Stations	Available
Supplements	27,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Second Per	Aerobic Exercising	11.4%	5044	x 3 hrs/wk	15133 hrs/wk	50 SF/user	540 stas.	
TOTALS	Step Aerobics	3.0%	1340	x 3 hrs/wk	4021 hrs/wk	50 SF/user	540 stas.	
FEAK ATTENDANCE	Calisthenics	5.7%	2519	x 3 hrs/wk	7556 hrs/wk	50 SF/user	540 stas.	
FEAK ATTENDANCE	TOTALS		8903		26710 hrs/wk	50 SF/user		54000hrs/wk
PEAK UTILIZATION RATE		90%		se	20,10 115,	20 527 4502		C 10001115/11
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING Desired Desired					55 hrs/wk	v		26730hrs/wk
Non-Structured Exercise				ration =				
Mortical Arts	AVAILABLE I LAR CONTACT IIC	JURS FOR FR	NOOKA MINING		20730H13/WK	minus	2070).74 HIS/WK =	2011 3/ WK
Mortical Arts	Non-Structured Exercise	Average	Projected	Desired	Desired	Max	Stations	Available
Martial Ars			*					
No. 1.00 1	,		_					
TOTALS								
PEAK ATTIENDANCE		2.270		A Z III S/ WK				120001 / 1
Fines Module (Weight Cardio)		900/		-	4534.135 nrs/wk	125 SF/user		12000nrs/wk
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING Available Avail					-0.1 / 1			10001 / 1
Projected Desired De				ration =				
Martic	AVAILABLE PEAK CONTACT HO	OURS FOR PR	ROGRAMMING		4800hrs/wk	minus	4534.135 hrs/wk =	266hrs/wk
Martic								
Exercising with Equipment		_	v					
TOTALS		•						Contact Hrs.
PEAK ATTENDANCE 80% of Stations in Use 989 stars. 989 stars. 989 stars. 8892hrs/wk x/41LABLE PEAK CONTACT HOURS FOR PROGRAMMING 88992hrs/wk mims 32630 hrs/wk 56362hrs/wk 563	Exercising with Equipment	24.5%	10877	x 3 hrs/wk	32630 hrs/wk	56 SF/user		
PEAK UTILIZATION RATE	TOTALS		10877		32630 hrs/wk	56 SF/user	1236 stas.	123600hrs/wk
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING Desired 69,000 SF Particip. Participants Times/Wk. Contact Hrs. SF/Person in Module Contact Hrs.	PEAK ATTENDANCE	80%	of Stations in Us	se			989 stas.	
Projected Desired Desired Desired Desired Special Sp	PEAK UTILIZATION RATE	90%	of Hours of Ope	ration =	90 hrs/wk	X	989 stas. =	88992hrs/wk
Exercising with Equipment 65.0% 28809 x 3 hrs/wk 86427 hrs/wk 56 SF/user 1236 stas. 123600hrs/wk FEAK ATTENDANCE 80% of Stations in Use 90 hrs/wk x 989 stas. 23600hrs/wk FEAK ATTENDANCE 80% of Stations in Use 90 hrs/wk x 989 stas. 28092hrs/wk 28092hr	AVAILABLE PEAK CONTACT HO	OURS FOR PR	ROGRAMMING		88992hrs/wk	minus	32630 hrs/wk =	56362hrs/wk
Exercising with Equipment 65.0% 28809 x 3 hrs/wk 86427 hrs/wk 56 SF/user 1236 stas. 123600hrs/wk FEAK ATTENDANCE 80% of Stations in Use 90 hrs/wk x 989 stas. 23600hrs/wk FEAK ATTENDANCE 80% of Stations in Use 90 hrs/wk x 989 stas. 28092hrs/wk 28092hr								
Exercising with Equipment 65.0% 28809 x 3 hrs/wk 86427 hrs/wk 56 SF/user 1236 stas. 123600hrs/wk 1236 stas. 123600hrs/wk 123600hrs/wk	Fitness Module (Weight/Cardio)	LNS	Projected	Desired	Desired	Max.	Stations	Available
TOTALS	69,000 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
PEAK ATTENDANCE 80% of Stations in Use 900 hrs/wk x 989 stas. = 88992hrs/wk	Exercising with Equipment	65.0%	28809	x 3 hrs/wk	86427 hrs/wk	56 SF/user	1236 stas.	
PEAK ATTENDANCE 80% of Stations in Use 900 hrs/wk x 989 stas. = 88992hrs/wk	TOTALS		28809		86427 hrs/wk	56 SF/user	1236 stas.	123600hrs/wk
PEAK UTILIZATION RATE 90% of Hours of Operation = 90 hrs/wk x 989 stas. = 88992hrs/wk AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 88992hrs/wk minus 86427 hrs/wk = 2565hrs/wk 2560hrs/wk 2560hr		80%		se				
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING S8992hrs/wk minus 86427 hrs/wk = 2565hrs/wk					90 hrs/wk	v		88992hrs/wk
Available Average Projected Desired Desired Desired Times / Wk. Contact Hrs. SF/Person in Module Contact Hrs.								
Note: VB assumes 12 players + 4 rotating players or each court. BB assumes 10 players + 4 waiting to rotate Hrs. SF/Person in Module Contact Hrs.	TIVILLE I LINE CONTINUE IN	ocus i ou i i	COGRETION TO		00))2III3/WK	minus	00427 HIS/WK =	20001113/111
Note: VB assumes 12 players + 4 rotating players or each court. BB assumes 10 players + 4 waiting to rotate Hrs. SF/Person in Module Contact Hrs.	Gymnasium Module	Average	Projected	Desired	Desired	Max.	Stations	Available
Court Size is 50 x 94 for a total playing area of: Volleyball 6.4% 2856 x 3 hrs/wk 8568 hrs/wk 392 SF/user 224 players		_	*					
Volleyball	,							
Basketball			2856	x 3 hrs/wk	8568 hrs/wk			
TOTALS (Average for SF/Per and Stations	•							
PEAK ATTENDANCE 100% of Stations in Use 210 players 210 players PEAK UTILIZATION RATE 60% of Hours of Operation = 60 hrs/wk x 210 players = 12600hrs/wk AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 12600hrs/wk minus 32948 hrs/wk = -20348hrs/wk = -20348hrs/wk = -20348hrs/wk Note: VB assumes 12 players + 4 rotating players for each court. BB assumes 10 players + 4 waiting to rotate in for each court. Wax. Stations in Max. Stations in Module Available Contact Hrs. Racquetball Courts Average Particip. Particip Participants Times/Wk. Contact Hrs. SF/Person in Module Contact Hrs. Racquetball 3.1% 1382 2764 hrs/wk 212.5 SF/user 48 occup. 4800hrs/wk PEAK ATTENDANCE 100% of Stations in Use 2400hrs/wk x 48 occup. 2400hrs/wk AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 2400hrs/wk minus 2764 hrs/wk 2764 hrs/wk 2764 hrs/wk 48 occup. 2400hrs/wk Jogging Track Average Projected Particip. Desired Desired Desired Desired Desired Particip. Desired Desired Desired Desired Particip.				A J III S/ WK				210001/
PEAK UTILIZATION RATE 60% of Hours of Operation = 60 hrs/wk x 210 players = 12600hrs/wk					32946 III'S/WK	431 SF/user		21000HFS/WK
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 12600hrs/wk minus 32948 hrs/wk = -20348hrs/wk					60 h/l-			12(00)/
Note: VB assumes 12 players + 4 rotating players for each court. BB assumes 10 players + 4 waiting to rotate in for each court. Racquetball Courts Average Porjected Particip. Desired Participants Desired Times / Wk. Desired Contact Hrs. Max. Stations in Module Contact Hrs. Available Contact Hrs. Racquetball 3.1% 1382 x 2 hrs/wk 2764 hrs/wk 212.5 SF/user 48 occup. 4800hrs/wk TOTALS 1382 2764 hrs/wk 212.5 SF/user 48 occup. 4800hrs/wk PEAK ATTENDANCE 100% of Stations in Use 50 hrs/wk x 48 occup. 2400hrs/wk AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 2400hrs/wk minus 2764 hrs/wk 2764				ration =			1 1 1 1 1 1	
Racquetball Courts Average 10,200 SF Projected Particip. Desired Times / Wk. Desired Contact Hrs. Desired SF/Person Max. Stations in Module in Module Available Contact Hrs. Racquetball 3.1% 1382 x 2 hrs/wk 2764 hrs/wk 212.5 SF/user 48 occup. 4800hrs/wk TOTALS 1382 2764 hrs/wk 212.5 SF/user 48 occup. 4800hrs/wk PEAK ATTENDANCE 100% of Stations in Use 50% of Hours of Operation = 50 hrs/wk x 48 occup. 2400hrs/wk AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 2400hrs/wk minus 2764 hrs/wk 2764 hrs/wk 2764 hrs/wk = -364hrs/wk Jogging Track Average Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module Contact Hrs. Running / Jogging 14.6% 6492 x 2 hrs/wk 12983 hrs/wk 150 occup. Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK UTILI								-20348hrs/wk
Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module Contact Hrs.	Note: VB assumes 12 players + 4 rot	tating players f	or each court. BB	assumes 10 player	s + 4 waiting to rot	ate in for each c	ourt.	
Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module Contact Hrs.								
Racquetball 3.1% 1382 x 2 hrs/wk 2764 hrs/wk 212.5 SF/user 48 occup.		_	*					
TOTALS	,		•					Contact Hrs.
PEAK ATTENDANCE 100% of Stations in Use 48 occup. PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 48 occup. = 2400hrs/wk AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 2400hrs/wk minus 2764 hrs/wk = -364hrs/wk Jogging Track Average Projected Participants Desired Times / Wk. Max. Contact Hrs. Stations in Module Contact Hrs. Available Contact Hrs. Running / Jogging 14.6% 6492 x 2 hrs/wk 12983 hrs/wk 150 occup. Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK ATTENDANCE 60% of Stations in Use 90 occup. 90 occup. = 7200hrs/wk	Racquetball	3.1%	1382	x 2 hrs/wk	2764 hrs/wk	212.5 SF/user	48 occup.	
PEAK UTILIZATION RATE 50% of Hours of Operation = 50 hrs/wk x 48 occup. = 2400hrs/wk AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 2400hrs/wk minus 2764 hrs/wk = -364hrs/wk Jogging Track Average Projected Participants Desired Times / Wk. Max. Stations in Module Contact Hrs. Available Contact Hrs. Running / Jogging 14.6% 6492 x 2 hrs/wk 12983 hrs/wk 150 occup. Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. PEAK ATTENDANCE 60% of Stations in Use 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation = 80 hrs/wk x 90 occup. = 7200hrs/wk	TOTALS		1382		2764 hrs/wk	212.5 SF/user	48 occup.	4800hrs/wk
AVAILABLE PEAK CONTACT HOURS FOR PROGRAMMING 2400hrs/wk minus 2764 hrs/wk = -364hrs/wk	PEAK ATTENDANCE	100%	of Stations in Us	se			48 occup.	
Desired Desi	PEAK UTILIZATION RATE	50%	of Hours of Ope	ration =	50 hrs/wk	X	48 occup. =	2400hrs/wk
6,400 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module Contact Hrs. Running / Jogging 14.6% 6492 x 2 hrs/wk 12983 hrs/wk 150 occup. Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK ATTENDANCE 60% of Stations in Use 90 occup. 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation 80 hrs/wk x 90 occup. 7200hrs/wk	AVAILABLE PEAK CONTACT HO	OURS FOR PR	ROGRAMMING		2400hrs/wk	minus	2764 hrs/wk =	-364hrs/wk
6,400 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module Contact Hrs. Running / Jogging 14.6% 6492 x 2 hrs/wk 12983 hrs/wk 150 occup. Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK ATTENDANCE 60% of Stations in Use 90 occup. 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation 80 hrs/wk x 90 occup. 7200hrs/wk								
6,400 SF Particip. Participants Times / Wk. Contact Hrs. SF/Person in Module Contact Hrs. Running / Jogging 14.6% 6492 x 2 hrs/wk 12983 hrs/wk 150 occup. Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK ATTENDANCE 60% of Stations in Use 90 occup. 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation 80 hrs/wk x 90 occup. 7200hrs/wk	Jogging Track	Average	Projected	Desired	Desired	Max.	Stations	Available
Running / Jogging 14.6% 6492 x 2 hrs/wk 12983 hrs/wk 150 occup. Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK ATTENDANCE 60% of Stations in Use 90 occup. 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation = 80 hrs/wk x 90 occup. = 7200hrs/wk			*					
Exercise Walking 28.8% 12751 x 2 hrs/wk 25502 hrs/wk 150 occup. TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK ATTENDANCE 60% of Stations in Use 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation = 80 hrs/wk x 90 occup. = 7200hrs/wk	Running / Jogging							
TOTALS 19243 38485 hrs/wk 150 occup. 15000hrs/wk PEAK ATTENDANCE 60% of Stations in Use 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation = 80 hrs/wk x 90 occup. = 7200hrs/wk	0 00 0	28.8%	12751	x 2 hrs/wk	25502 hrs/wk		•	
PEAK ATTENDANCE 60% of Stations in Use 90 occup. PEAK UTILIZATION RATE 80% of Hours of Operation = 80 hrs/wk x 90 occup. = 7200hrs/wk								15000hrs/wk
PEAK UTILIZATION RATE 80% of Hours of Operation = 80 hrs/wk x 90 occup. = 7200hrs/wk		60%		se				
					80 hrs/wb	v		7200hrs/wb
AVAIDADDE I DAN CONTACT HOURS FOR I ROUNASTINIO 1200HIS/WK HIHRUS 30405 HIS/WK = -31205HIS/WK								
	A VAILABLE I EAR CONTACT HO	JUKS FUK PK	OGRAMMINI		/ 200HFS/ WK	millus	30403 HFS/WK =	-31203IIIS/WK

Maximum authorized population of 65,000 - 100 hours of operation per week:

Base Population:	(60,001-65,00	0)					
Aerobic Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
29,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Aerobic Exercising	11.4%	5465	x 3 hrs/wk	16394 hrs/wk	50 SF/user	585 stas.	
Step Aerobics	3.0%	1452	x 3 hrs/wk	4356 hrs/wk	50 SF/user	585 stas.	
Calisthenics	5.7%	2728	x 3 hrs/wk	8185 hrs/wk	50 SF/user	585 stas.	
TOTALS		9645		28936 hrs/wk	50 SF/user	585 stas.	58500hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us	se			527 stas.	
PEAK UTILIZATION RATE	55%	of Hours of Ope	ration =	55 hrs/wk	x	527 stas. =	28958hrs/wk
AVAILABLE PEAK CONTACT HO	OURS FOR PE	ROGRAMMING		28958hrs/wk	minus	28935.5 hrs/wk =	22hrs/wk
Non-Structured Exercise	Average	Projected	Desired	Desired	Max.	Stations	Available
16,250 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Martial Arts	3.0%	1422	x 2 hrs/wk	2843 hrs/wk	125 SF/user	130 stas.	
Kick Boxing	2.2%	1034	x 2 hrs/wk	2068 hrs/wk	125 SF/user	130 stas.	
TOTALS		2456		4911.98 hrs/wk	125 SF/user	130 stas.	13000hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us	se			104 stas.	
PEAK UTILIZATION RATE	50%	of Hours of Ope		50 hrs/wk	X	104 stas. =	5200hrs/wk
AVAILABLE PEAK CONTACT HO			iution –	5200hrs/wk	minus	4911.98 hrs/wk =	288hrs/wk
AVAILABLE LEAR CONTACT IIC	JOKS FOR I I	COGRAMMINI		32001115/WK	iiiius	4711.70 III S/ WK =	20011 S/ WK
Fitness Module (Weight/Cardio)	Average	Projected	Desired	Desired	Max.	Stations	Available
74,750 SF	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	24.5%	11783	x 3 hrs/wk	35349 hrs/wk	56 SF/user	1339 stas.	
	24.370	11783	A 3 III 3/ WK	35349 hrs/wk			122000hug/rylr
TOTALS PEAK ATTENDANCE	80%	of Stations in Us		35349 IIIS/WK	56 SF/user	1339 stas. 1071 stas.	133900hrs/wk
PEAK UTILIZATION RATE	90%	of Hours of Ope		00 1/1-	_		96408hrs/wk
			ration =	90 hrs/wk	<u>x</u>	1071 stas. =	
AVAILABLE PEAK CONTACT HO	OURS FOR PR	ROGRAMMING		96408hrs/wk	minus	35349 hrs/wk =	61059hrs/wk
Th. M. 1.1 (W. 1.1 (G. 11.)	* ***				.,	a	
Fitness Module (Weight/Cardio) 74.750 SF	LNS	Projected	Desired	Desired	Max.	Stations	Available
,	Particip.	Participants	Times / Wk.	Contact Hrs.	SF/Person	in Module	Contact Hrs.
Exercising with Equipment	65.0%	31210	x 3 hrs/wk	93629 hrs/wk	56 SF/user	1339 stas.	
TOTALS		31210		93629 hrs/wk	56 SF/user	1339 stas.	133900hrs/wk
PEAK ATTENDANCE	80%	of Stations in Us			56 SF/user	1071 stas.	
PEAK ATTENDANCE PEAK UTILIZATION RATE	90%	of Stations in Us of Hours of Ope		90 hrs/wk	X	1071 stas. =	96408hrs/wk
PEAK ATTENDANCE	90%	of Stations in Us of Hours of Ope				1071 stas.	
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO	90% DURS FOR PR	of Stations in Us of Hours of Ope ROGRAMMING	ration =	90 hrs/wk 96408hrs/wk	x minus	1071 stas. 1071 stas. = 93629 hrs/wk =	96408hrs/wk 2779hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module	90% DURS FOR PE Average	of Stations in Us of Hours of Ope COGRAMMING Projected	ration = Desired	90 hrs/wk 96408hrs/wk Desired	x minus Max.	1071 stas. = 93629 hrs/wk = Stations	96408hrs/wk 2779hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF	90% DURS FOR PR Average Particip.	of Stations in Us of Hours of Ope ROGRAMMING	ration =	90 hrs/wk 96408hrs/wk	x minus Max. SF/Person	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module	96408hrs/wk 2779hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play	90% OURS FOR PR Average Particip. ying area of:	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants	ration = Desired Times / Wk.	90 hrs/wk 96408hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 70,500 SF	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s	96408hrs/wk 2779hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball	90% DURS FOR PR Average Particip. ying area of: 6.4%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094	Desired Times / Wk.	90 hrs/wk 96408hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 70,500 SF 392 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players	96408hrs/wk 2779hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play	90% OURS FOR PR Average Particip. ying area of:	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804	ration = Desired Times / Wk.	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk	x minus Max. SF/Person 70,500 SF	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s	96408hrs/wk 2779hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St	Average Particip. ying area of: 6.4% 18.3% tations)	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 70,500 SF 392 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players	96408hrs/wk 2779hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE	Average Particip. ying area of: 6.4% 18.3% tations)	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players	96408hrs/wk 2779hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St	Average Particip. ying area of: 6.4% 18.3% tations)	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players	96408hrs/wk 2779hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SPEAK ATTENDANCE PEAK UTILIZATION RATE	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk seeration =	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 60 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players = 225 players = 35694 hrs/wk =	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SOPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk seeration =	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 60 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players = 225 players = 35694 hrs/wk =	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk seeration =	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 60 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user	1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players = 225 players = 35694 hrs/wk =	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SI PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players f	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING for each court. BB	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration =	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 60 hrs/wk 13500hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = purt.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PF ating players f	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = desired desired	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 4 waiting to rot. Desired Contact Hrs.	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = ourt.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SOPEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot Racquetball Courts 11,050 SF	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PF ating players f Average Particip.	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = desired Times / Wk.	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 4 waiting to rot. Desired Contact Hrs.	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = ourt. Stations in Module	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SF PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot Racquetball Courts 11,050 SF Racquetball	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PF ating players f Average Particip.	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1497	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = desired Times / Wk. x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 4 waiting to rot Desired Contact Hrs. 2994 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = burt. Stations in Module 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SF PEAK ATTENDANCE PEAK ATTENDANCE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 11,050 SF Racquetball TOTALS	Average Particip. 100% 18.3% 100% 60% DURS FOR PF ating players f Average Particip. 3.1%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1497 1497	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = Gassumes 10 players Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 4 waiting to rot Desired Contact Hrs. 2994 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = burt. Stations in Module 52 occup. 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SP PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 11,050 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE	Average Particip. 100% Average Particip. 1100% Average Particip. 120% Average Particip. 3.1%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1497 1497 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = Gassumes 10 players Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 14 waiting to rot. Desired Contact Hrs. 2994 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = burt. Stations in Module 52 occup. 52 occup. 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 11,050 SF Racquetball TOTALS PEAK ATTENDANCE	Average Particip. 100% Average Particip. 1100% Average Particip. 120% Average Particip. 3.1%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1497 1497 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = Gassumes 10 players Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 14 waiting to rot. Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk 50 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = burt. Stations in Module 52 occup. 52 occup. 52 occup. 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and SP PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rots Racquetball Courts 11,050 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE	Average Particip. 100% Average Particip. 1100% Average Particip. 120% Average Particip. 3.1%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1497 1497 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ee ration = Gassumes 10 players Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 14 waiting to rot. Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk 50 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = burt. Stations in Module 52 occup. 52 occup. 52 occup. 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot. Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO RACQUETBALL TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO CONTACT HO	Average Particip. 3.1% Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip. 3.1%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING Or each court. BB Projected Participants 1497 1497 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ration = assumes 10 players Desired Times / Wk. x 2 hrs/wk se ration =	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 4 waiting to rot Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk 50 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 court. Stations in Module 52 occup. 52 occup. 52 occup. 52 occup. 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk -394hrs/wk
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot. Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track	Average Particip. ying area of: 6.4% 18.3% tations) 100% OURS FOR PF ating players f Average Particip. 3.1% 100% 50% OURS FOR PF Average Average Particip. Average Particip. Average Average	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1497 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk ration = d assumes 10 players Desired Times / Wk. x 2 hrs/wk se ration =	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 4 4 waiting to rot Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk 50 hrs/wk Desired	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players 225 players 225 court. Stations in Module 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk 2600hrs/wk -394hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot. Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ONTACT HO Jogging Track 6,400 SF	Average Particip. ying area of: 6.4% 18.3% tations) 100% 60% DURS FOR PR ating players f Average Particip. 3.1% 100% 50% DURS FOR PR Average Particip. Average Particip.	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING For each court. BB Projected Participants 1497 1497 of Stations in Us of Hours of Ope ROGRAMMING	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk se ration = Desired Times / Wk.	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk + 4 waiting to rot Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk 2600hrs/wk Desired Contact Hrs.	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = Durt. Stations in Module 52 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk 2600hrs/wk -394hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot. Racquetball Courts 11,050 SF Racquetball TOTALS PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE PEAK ATTENDANCE OBJUSTICAL OF THE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF Running / Jogging	Average Particip. 100% 50% DURS FOR PF Average Particip. 3.1% Average Particip. 3.1% Average Particip. 3.1% Average Particip. 114.6%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING Frojected Participants 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 7033	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk Desired Times / Wk. x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 14 waiting to rot. Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk Desired Contact Hrs. 14065 hrs/wk 27627 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = Durt. Stations in Module 52 occup. 53 occup. 54 occup. 55 occup. 55 occup. 55 occup. 55 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk 2600hrs/wk -394hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot. Racquetball TOTALS PEAK ATTENDANCE PEAK ONTACT HO Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	Average Particip. 100% 50% Average Particip. 1100% 50% Average Particip. 3.1% Average Particip. 3.1% Average Particip. 3.1% Average Particip. 3.1% Average Particip. 28.8%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING Frojected Participants 1497 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1497 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 7033 13814 20846	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk be ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 14 waiting to rot. Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk Desired Contact Hrs. 14065 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = Durt. Stations in Module 52 occup. 53 occup. 54 occup. 55 occup. 55 occup. 55 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk 2600hrs/wk -394hrs/wk Available
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot. Racquetball Courts 11,050 SF Racquetball TOTALS PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS PEAK ATTENDANCE	Average Particip. 100% 50WRS FOR PF Average Particip. 118.3% 148.3% 150% 100% 100% 100% 100% 100% 100% 100	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING Frojected Participants 1497 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1497 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 7033 13814 20846 of Stations in Us	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk be ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 14 waiting to rot. Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk 2600hrs/wk Desired Contact Hrs. 14065 hrs/wk 27627 hrs/wk 41693 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co 212.5 SF/user x minus 212.5 SF/user x minus	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = Durt. Stations in Module 52 occup. 53 occup. 54 occup. 55 occup. 55 occup. 56 occup. 150 occup. 150 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk 2600hrs/wk Available Contact Hrs.
PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Gymnasium Module 124,200 SF Court Size is 50 x 94 for a total play Volleyball Basketball TOTALS (Average for SF/Per and St PEAK ATTENDANCE PEAK UTILIZATION RATE AVAILABLE PEAK CONTACT HO Note: VB assumes 12 players + 4 rot. Racquetball TOTALS PEAK ATTENDANCE PEAK ONTACT HO Jogging Track 6,400 SF Running / Jogging Exercise Walking TOTALS	Average Particip. 100% 50% Average Particip. 1100% 50% 100% 50% DURS FOR PF Average Particip. 3.1% Average Particip. 3.1% 100% 50% DURS FOR PF Average Particip. 14.6% 28.8%	of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 3094 8804 11898 of Stations in Us of Hours of Ope ROGRAMMING or each court. BB Projected Participants 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 1497 of Stations in Us of Hours of Ope ROGRAMMING Projected Participants 7033 13814 20846 of Stations in Us of Hours of Ope	Desired Times / Wk. x 3 hrs/wk x 3 hrs/wk se ration = Desired Times / Wk. x 2 hrs/wk be ration = Desired Times / Wk. x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk x 2 hrs/wk	90 hrs/wk 96408hrs/wk Desired Contact Hrs. 9282 hrs/wk 26412 hrs/wk 35694 hrs/wk 13500hrs/wk 13500hrs/wk 14 waiting to rot. Desired Contact Hrs. 2994 hrs/wk 2994 hrs/wk Desired Contact Hrs. 14065 hrs/wk 27627 hrs/wk	x minus Max. SF/Person 70,500 SF 392 SF/user 470 SF/user 431 SF/user x minus ate in for each co Max. SF/Person 212.5 SF/user x minus Max. Max. Max.	1071 stas. 1071 stas. = 93629 hrs/wk = Stations in Module 15 court/s 240 players 210 players 225 players 225 players 225 players 225 players = 35694 hrs/wk = Durt. Stations in Module 52 occup. 53 occup. 54 occup. 55 occup. 55 occup. 55 occup. 55 occup. 55 occup.	96408hrs/wk 2779hrs/wk Available Contact Hrs. 22500hrs/wk 13500hrs/wk -22194hrs/wk Available Contact Hrs. 5200hrs/wk 2600hrs/wk -394hrs/wk Available Contact Hrs.

